展開 05-1　　（　　点）（　　分　　秒）

次の式を展開しなさい。（1 問 5 点）

(1) $\left(y-\frac{2}{3}\right)^2$

(2) $(x-1)\left(x+\frac{1}{2}\right)$

(3) $\left(b+\frac{1}{3}\right)\left(b+\frac{3}{2}\right)$

(4) $\left(x-\frac{8}{3}\right)\left(x+\frac{8}{3}\right)$

(5) $\left(x-\frac{4}{3}\right)\left(x+\frac{8}{3}\right)$

(6) $\left(x+\frac{5}{2}\right)(x+1)$

(7) $\left(x-\frac{5}{3}\right)\left(x+\frac{5}{3}\right)$

(8) $\left(y-\frac{1}{5}\right)\left(y-\frac{4}{3}\right)$

(9) $\left(a+\frac{3}{2}\right)\left(a-\frac{6}{5}\right)$

(10) $\left(x+\frac{5}{4}\right)\left(x+\frac{4}{3}\right)$

(11) $(4x+1)^2$

(12) $\left(3b-\frac{8}{3}\right)\left(3b+\frac{8}{3}\right)$

(13) $(3y-3)(3y+2)$

(14) $\left(2x-\frac{5}{3}\right)\left(2x+\frac{5}{2}\right)$

(15) $(3x+3)\left(3x-\frac{5}{2}\right)$

(16) $\left(3x+\frac{8}{5}\right)\left(3x+\frac{3}{5}\right)$

(17) $\left(5x+\frac{8}{3}\right)(5x-2)$

(18) $\left(2x-\frac{1}{4}\right)\left(2x-\frac{1}{5}\right)$

(19) $(3a+1)(3a-3)$

(20) $(4a+1)^2$

展開 05-1　　（　　点）（　　分　　秒）

次の式を展開しなさい。（1 問 5 点）

(1) $\left(y-\frac{2}{3}\right)^2 = \boldsymbol{y^2-\frac{4}{3}y+\frac{4}{9}}$

(2) $(x-1)\left(x+\frac{1}{2}\right) = \boldsymbol{x^2-\frac{1}{2}x-\frac{1}{2}}$

(3) $\left(b+\frac{1}{3}\right)\left(b+\frac{3}{2}\right) = \boldsymbol{b^2+\frac{11}{6}b+\frac{1}{2}}$

(4) $\left(x-\frac{8}{3}\right)\left(x+\frac{8}{3}\right) = \boldsymbol{x^2-\frac{64}{9}}$

(5) $\left(x-\frac{4}{3}\right)\left(x+\frac{8}{3}\right) = \boldsymbol{x^2+\frac{4}{3}x-\frac{32}{9}}$

(6) $\left(x+\frac{5}{2}\right)(x+1) = \boldsymbol{x^2+\frac{7}{2}x+\frac{5}{2}}$

(7) $\left(x-\frac{5}{3}\right)\left(x+\frac{5}{3}\right) = \boldsymbol{x^2-\frac{25}{9}}$

(8) $\left(y-\frac{1}{5}\right)\left(y-\frac{4}{3}\right) = \boldsymbol{y^2-\frac{23}{15}y+\frac{4}{15}}$

(9) $\left(a+\frac{3}{2}\right)\left(a-\frac{6}{5}\right) = \boldsymbol{a^2+\frac{3}{10}a-\frac{9}{5}}$

(10) $\left(x+\frac{5}{4}\right)\left(x+\frac{4}{3}\right) = \boldsymbol{x^2+\frac{31}{12}x+\frac{5}{3}}$

(11) $(4x+1)^2 = \boldsymbol{16x^2+8x+1}$

(12) $\left(3b-\frac{8}{3}\right)\left(3b+\frac{8}{3}\right) = \boldsymbol{9b^2-\frac{64}{9}}$

(13) $(3y-3)(3y+2) = \boldsymbol{9y^2-3y-6}$

(14) $\left(2x-\frac{5}{3}\right)\left(2x+\frac{5}{2}\right) = \boldsymbol{4x^2+\frac{5}{3}x-\frac{25}{6}}$

(15) $(3x+3)\left(3x-\frac{5}{2}\right) = \boldsymbol{9x^2+\frac{3}{2}x-\frac{15}{2}}$

(16) $\left(3x+\frac{8}{5}\right)\left(3x+\frac{3}{5}\right) = \boldsymbol{9x^2+\frac{33}{5}x+\frac{24}{25}}$

(17) $\left(5x+\frac{8}{3}\right)(5x-2) = \boldsymbol{25x^2+\frac{10}{3}x-\frac{16}{3}}$

(18) $\left(2x-\frac{1}{4}\right)\left(2x-\frac{1}{5}\right) = \boldsymbol{4x^2-\frac{9}{10}x+\frac{1}{20}}$

(19) $(3a+1)(3a-3) = \boldsymbol{9a^2-6a-3}$

(20) $(4a+1)^2 = \boldsymbol{16a^2+8a+1}$

展開 05-2　　（　　点）（　　分　　秒）

次の式を展開しなさい。（1 問 5 点）

(1) $\left(a-\frac{4}{3}\right)\left(a+\frac{4}{3}\right)$

(2) $\left(y-\frac{3}{2}\right)\left(y+\frac{3}{2}\right)$

(3) $\left(x-\frac{5}{3}\right)\left(x-\frac{5}{2}\right)$

(4) $\left(b+\frac{8}{3}\right)\left(b-\frac{2}{3}\right)$

(5) $\left(x+\frac{7}{2}\right)\left(x-\frac{7}{2}\right)$

(6) $(a-2)(a+2)$

(7) $(x-1)(x+1)$

(8) $\left(x+\frac{7}{2}\right)\left(x+\frac{7}{3}\right)$

(9) $(a-1)\left(a-\frac{7}{5}\right)$

(10) $\left(x+\frac{5}{4}\right)(x-4)$

(11) $\left(4y+\frac{1}{3}\right)(4y+2)$

(12) $(5a+2)\left(5a+\frac{1}{3}\right)$

(13) $\left(3x+\frac{7}{2}\right)\left(3x+\frac{7}{3}\right)$

(14) $\left(3b-\frac{5}{2}\right)^2$

(15) $\left(4x+\frac{1}{3}\right)\left(4x-\frac{1}{3}\right)$

(16) $\left(3y-\frac{5}{4}\right)\left(3y+\frac{7}{3}\right)$

(17) $(4y-3)\left(4y-\frac{7}{2}\right)$

(18) $\left(3b+\frac{3}{5}\right)\left(3b+\frac{7}{5}\right)$

(19) $(3b-3)\left(3b-\frac{7}{4}\right)$

(20) $(4x-1)\left(4x-\frac{3}{2}\right)$

展開 05-2　　（　　点）（　　分　　秒）

次の式を展開しなさい。（1 問 5 点）

(1) $\left(a-\frac{4}{3}\right)\left(a+\frac{4}{3}\right) = \boldsymbol{a^2-\frac{16}{9}}$

(2) $\left(y-\frac{3}{2}\right)\left(y+\frac{3}{2}\right) = \boldsymbol{y^2-\frac{9}{4}}$

(3) $\left(x-\frac{5}{3}\right)\left(x-\frac{5}{2}\right)$
$= \boldsymbol{x^2-\frac{25}{6}x+\frac{25}{6}}$

(4) $\left(b+\frac{8}{3}\right)\left(b-\frac{2}{3}\right) = \boldsymbol{b^2+2b-\frac{16}{9}}$

(5) $\left(x+\frac{7}{2}\right)\left(x-\frac{7}{2}\right) = \boldsymbol{x^2-\frac{49}{4}}$

(6) $(a-2)(a+2) = \boldsymbol{a^2-4}$

(7) $(x-1)(x+1) = \boldsymbol{x^2-1}$

(8) $\left(x+\frac{7}{2}\right)\left(x+\frac{7}{3}\right)$
$= \boldsymbol{x^2+\frac{35}{6}x+\frac{49}{6}}$

(9) $(a-1)\left(a-\frac{7}{5}\right) = \boldsymbol{a^2-\frac{12}{5}a+\frac{7}{5}}$

(10) $\left(x+\frac{5}{4}\right)(x-4) = \boldsymbol{x^2-\frac{11}{4}x-5}$

(11) $\left(4y+\frac{1}{3}\right)(4y+2)$
$= \boldsymbol{16y^2+\frac{28}{3}y+\frac{2}{3}}$

(12) $(5a+2)\left(5a+\frac{1}{3}\right)$
$= \boldsymbol{25a^2+\frac{35}{3}a+\frac{2}{3}}$

(13) $\left(3x+\frac{7}{2}\right)\left(3x+\frac{7}{3}\right)$
$= \boldsymbol{9x^2+\frac{35}{2}x+\frac{49}{6}}$

(14) $\left(3b-\frac{5}{2}\right)^2 = \boldsymbol{9b^2-15b+\frac{25}{4}}$

(15) $\left(4x+\frac{1}{3}\right)\left(4x-\frac{1}{3}\right) = \boldsymbol{16x^2-\frac{1}{9}}$

(16) $\left(3y-\frac{5}{4}\right)\left(3y+\frac{7}{3}\right)$
$= \boldsymbol{9y^2+\frac{13}{4}y-\frac{35}{12}}$

(17) $(4y-3)\left(4y-\frac{7}{2}\right)$
$= \boldsymbol{16y^2-26y+\frac{21}{2}}$

(18) $\left(3b+\frac{3}{5}\right)\left(3b+\frac{7}{5}\right) = \boldsymbol{9b^2+6b+\frac{21}{25}}$

(19) $(3b-3)\left(3b-\frac{7}{4}\right)$
$= \boldsymbol{9b^2-\frac{57}{4}b+\frac{21}{4}}$

(20) $(4x-1)\left(4x-\frac{3}{2}\right)$
$= \boldsymbol{16x^2-10x+\frac{3}{2}}$

展開 05-3　　（　　点）（　　分　　秒）

次の式を展開しなさい。（1 問 5 点）

(1) $\left(x+\frac{7}{2}\right)(x+1)$

(2) $\left(b+\frac{7}{2}\right)^2$

(3) $(x-3)(x+3)$

(4) $(b-4)^2$

(5) $\left(x-\frac{8}{3}\right)\left(x+\frac{4}{3}\right)$

(6) $\left(b-\frac{5}{3}\right)\left(b+\frac{3}{2}\right)$

(7) $(x-3)\left(x+\frac{1}{3}\right)$

(8) $(x-4)\left(x-\frac{1}{3}\right)$

(9) $(b+2)^2$

(10) $(a+1)^2$

(11) $(5x+4)(5x-4)$

(12) $(4x-2)(4x+2)$

(13) $\left(2x-\frac{7}{3}\right)\left(2x-\frac{5}{3}\right)$

(14) $\left(4x+\frac{1}{2}\right)\left(4x-\frac{1}{2}\right)$

(15) $(3a+3)\left(3a+\frac{7}{3}\right)$

(16) $\left(3b+\frac{5}{4}\right)\left(3b-\frac{8}{5}\right)$

(17) $\left(5x-\frac{6}{5}\right)\left(5x-\frac{3}{5}\right)$

(18) $\left(5x-\frac{6}{5}\right)(5x+4)$

(19) $\left(3a-\frac{1}{5}\right)\left(3a+\frac{1}{5}\right)$

(20) $(2x+2)\left(2x-\frac{7}{2}\right)$

展開 05-3　　（　　点）（　　分　　秒）

次の式を展開しなさい。（1 問 5 点）

(1) $\left(x+\frac{7}{2}\right)(x+1) = \boldsymbol{x^2+\frac{9}{2}x+\frac{7}{2}}$

(2) $\left(b+\frac{7}{2}\right)^2 = \boldsymbol{b^2+7b+\frac{49}{4}}$

(3) $(x-3)(x+3) = \boldsymbol{x^2-9}$

(4) $(b-4)^2 = \boldsymbol{b^2-8b+16}$

(5) $\left(x-\frac{8}{3}\right)\left(x+\frac{4}{3}\right) = \boldsymbol{x^2-\frac{4}{3}x-\frac{32}{9}}$

(6) $\left(b-\frac{5}{3}\right)\left(b+\frac{3}{2}\right) = \boldsymbol{b^2-\frac{1}{6}b-\frac{5}{2}}$

(7) $(x-3)\left(x+\frac{1}{3}\right) = \boldsymbol{x^2-\frac{8}{3}x-1}$

(8) $(x-4)\left(x-\frac{1}{3}\right) = \boldsymbol{x^2-\frac{13}{3}x+\frac{4}{3}}$

(9) $(b+2)^2 = \boldsymbol{b^2+4b+4}$

(10) $(a+1)^2 = \boldsymbol{a^2+2a+1}$

(11) $(5x+4)(5x-4) = \boldsymbol{25x^2-16}$

(12) $(4x-2)(4x+2) = \boldsymbol{16x^2-4}$

(13) $\left(2x-\frac{7}{3}\right)\left(2x-\frac{5}{3}\right) = \boldsymbol{4x^2-8x+\frac{35}{9}}$

(14) $\left(4x+\frac{1}{2}\right)\left(4x-\frac{1}{2}\right) = \boldsymbol{16x^2-\frac{1}{4}}$

(15) $(3a+3)\left(3a+\frac{7}{3}\right) = \boldsymbol{9a^2+16a+7}$

(16) $\left(3b+\frac{5}{4}\right)\left(3b-\frac{8}{5}\right) = \boldsymbol{9b^2-\frac{21}{20}b-2}$

(17) $\left(5x-\frac{6}{5}\right)\left(5x-\frac{3}{5}\right) = \boldsymbol{25x^2-9x+\frac{18}{25}}$

(18) $\left(5x-\frac{6}{5}\right)(5x+4) = \boldsymbol{25x^2+14x-\frac{24}{5}}$

(19) $\left(3a-\frac{1}{5}\right)\left(3a+\frac{1}{5}\right) = \boldsymbol{9a^2-\frac{1}{25}}$

(20) $(2x+2)\left(2x-\frac{7}{2}\right) = \boldsymbol{4x^2-3x-7}$

展開 05-4　　（　　点）（　　分　　秒）

次の式を展開しなさい。（1 問 5 点）

(1) $\left(b+\frac{7}{3}\right)(b-1)$

(2) $(x+4)(x-3)$

(3) $\left(x+\frac{7}{3}\right)^2$

(4) $(x+4)(x-2)$

(5) $(x-4)(x-1)$

(6) $(a-1)\left(a+\frac{7}{3}\right)$

(7) $\left(y+\frac{3}{2}\right)\left(y-\frac{3}{2}\right)$

(8) $\left(a-\frac{3}{2}\right)\left(a+\frac{3}{2}\right)$

(9) $\left(x-\frac{7}{3}\right)\left(x+\frac{1}{2}\right)$

(10) $(b-1)\left(b+\frac{8}{5}\right)$

(11) $(2x-2)(2x+2)$

(12) $\left(4b+\frac{2}{3}\right)(4b+3)$

(13) $(3a+2)\left(3a-\frac{7}{2}\right)$

(14) $(3x-2)(3x+1)$

(15) $(5x-3)^2$

(16) $\left(4a-\frac{5}{4}\right)\left(4a+\frac{5}{4}\right)$

(17) $\left(3y+\frac{1}{2}\right)\left(3y-\frac{1}{2}\right)$

(18) $\left(3a+\frac{3}{2}\right)(3a-2)$

(19) $\left(4y+\frac{7}{3}\right)\left(4y-\frac{7}{3}\right)$

(20) $\left(4x+\frac{8}{3}\right)\left(4x-\frac{8}{3}\right)$

展開 05-4　　（　　点）（　　分　　秒）

次の式を展開しなさい。（1 問 5 点）

(1) $\left(b+\frac{7}{3}\right)(b-1) = \boldsymbol{b^2+\frac{4}{3}b-\frac{7}{3}}$

(2) $(x+4)(x-3) = \boldsymbol{x^2+x-12}$

(3) $\left(x+\frac{7}{3}\right)^2 = \boldsymbol{x^2+\frac{14}{3}x+\frac{49}{9}}$

(4) $(x+4)(x-2) = \boldsymbol{x^2+2x-8}$

(5) $(x-4)(x-1) = \boldsymbol{x^2-5x+4}$

(6) $(a-1)\left(a+\frac{7}{3}\right) = \boldsymbol{a^2+\frac{4}{3}a-\frac{7}{3}}$

(7) $\left(y+\frac{3}{2}\right)\left(y-\frac{3}{2}\right) = \boldsymbol{y^2-\frac{9}{4}}$

(8) $\left(a-\frac{3}{2}\right)\left(a+\frac{3}{2}\right) = \boldsymbol{a^2-\frac{9}{4}}$

(9) $\left(x-\frac{7}{3}\right)\left(x+\frac{1}{2}\right) = \boldsymbol{x^2-\frac{11}{6}x-\frac{7}{6}}$

(10) $(b-1)\left(b+\frac{8}{5}\right) = \boldsymbol{b^2+\frac{3}{5}b-\frac{8}{5}}$

(11) $(2x-2)(2x+2) = \boldsymbol{4x^2-4}$

(12) $\left(4b+\frac{2}{3}\right)(4b+3) = \boldsymbol{16b^2+\frac{44}{3}b+2}$

(13) $(3a+2)\left(3a-\frac{7}{2}\right) = \boldsymbol{9a^2-\frac{9}{2}a-7}$

(14) $(3x-2)(3x+1) = \boldsymbol{9x^2-3x-2}$

(15) $(5x-3)^2 = \boldsymbol{25x^2-30x+9}$

(16) $\left(4a-\frac{5}{4}\right)\left(4a+\frac{5}{4}\right) = \boldsymbol{16a^2-\frac{25}{16}}$

(17) $\left(3y+\frac{1}{2}\right)\left(3y-\frac{1}{2}\right) = \boldsymbol{9y^2-\frac{1}{4}}$

(18) $\left(3a+\frac{3}{2}\right)(3a-2) = \boldsymbol{9a^2-\frac{3}{2}a-3}$

(19) $\left(4y+\frac{7}{3}\right)\left(4y-\frac{7}{3}\right) = \boldsymbol{16y^2-\frac{49}{9}}$

(20) $\left(4x+\frac{8}{3}\right)\left(4x-\frac{8}{3}\right) = \boldsymbol{16x^2-\frac{64}{9}}$

展開 05-5　　（　　点）（　　分　　秒）

次の式を展開しなさい。（1 問 5 点）

(1) $\left(x-\frac{5}{3}\right)\left(x+\frac{5}{3}\right)$

(2) $\left(b-\frac{1}{2}\right)(b+2)$

(3) $\left(x-\frac{1}{3}\right)\left(x+\frac{8}{3}\right)$

(4) $\left(y-\frac{7}{3}\right)\left(y-\frac{2}{3}\right)$

(5) $(x+2)\left(x+\frac{1}{2}\right)$

(6) $\left(y+\frac{2}{5}\right)\left(y-\frac{8}{5}\right)$

(7) $(a+3)\left(a+\frac{3}{2}\right)$

(8) $(a-3)(a+3)$

(9) $\left(x-\frac{1}{4}\right)\left(x-\frac{5}{4}\right)$

(10) $\left(x-\frac{3}{4}\right)\left(x+\frac{3}{4}\right)$

(11) $(2x+3)(2x-3)$

(12) $\left(4a-\frac{1}{3}\right)(4a+1)$

(13) $(3b+3)\left(3b-\frac{1}{2}\right)$

(14) $\left(3x-\frac{8}{3}\right)(3x-2)$

(15) $(4b+4)^2$

(16) $\left(4a+\frac{3}{5}\right)\left(4a-\frac{3}{4}\right)$

(17) $\left(4y-\frac{3}{2}\right)\left(4y+\frac{7}{4}\right)$

(18) $\left(2a-\frac{3}{5}\right)\left(2a+\frac{1}{3}\right)$

(19) $(4a+2)\left(4a-\frac{6}{5}\right)$

(20) $\left(2b-\frac{6}{5}\right)\left(2b+\frac{8}{5}\right)$

展開 05-5　　（　　点）（　　分　　秒）

次の式を展開しなさい。（1 問 5 点）

(1) $\left(x-\frac{5}{3}\right)\left(x+\frac{5}{3}\right) = \boldsymbol{x^2-\frac{25}{9}}$

(2) $\left(b-\frac{1}{2}\right)(b+2) = \boldsymbol{b^2+\frac{3}{2}b-1}$

(3) $\left(x-\frac{1}{3}\right)\left(x+\frac{8}{3}\right) = \boldsymbol{x^2+\frac{7}{3}x-\frac{8}{9}}$

(4) $\left(y-\frac{7}{3}\right)\left(y-\frac{2}{3}\right) = \boldsymbol{y^2-3y+\frac{14}{9}}$

(5) $(x+2)\left(x+\frac{1}{2}\right) = \boldsymbol{x^2+\frac{5}{2}x+1}$

(6) $\left(y+\frac{2}{5}\right)\left(y-\frac{8}{5}\right) = \boldsymbol{y^2-\frac{6}{5}y-\frac{16}{25}}$

(7) $(a+3)\left(a+\frac{3}{2}\right) = \boldsymbol{a^2+\frac{9}{2}a+\frac{9}{2}}$

(8) $(a-3)(a+3) = \boldsymbol{a^2-9}$

(9) $\left(x-\frac{1}{4}\right)\left(x-\frac{5}{4}\right) = \boldsymbol{x^2-\frac{3}{2}x+\frac{5}{16}}$

(10) $\left(x-\frac{3}{4}\right)\left(x+\frac{3}{4}\right) = \boldsymbol{x^2-\frac{9}{16}}$

(11) $(2x+3)(2x-3) = \boldsymbol{4x^2-9}$

(12) $\left(4a-\frac{1}{3}\right)(4a+1)$
$= \boldsymbol{16a^2+\frac{8}{3}a-\frac{1}{3}}$

(13) $(3b+3)\left(3b-\frac{1}{2}\right) = \boldsymbol{9b^2+\frac{15}{2}b-\frac{3}{2}}$

(14) $\left(3x-\frac{8}{3}\right)(3x-2)$
$= \boldsymbol{9x^2-14x+\frac{16}{3}}$

(15) $(4b+4)^2 = \boldsymbol{16b^2+32b+16}$

(16) $\left(4a+\frac{3}{5}\right)\left(4a-\frac{3}{4}\right)$
$= \boldsymbol{16a^2-\frac{3}{5}a-\frac{9}{20}}$

(17) $\left(4y-\frac{3}{2}\right)\left(4y+\frac{7}{4}\right)$
$= \boldsymbol{16y^2+y-\frac{21}{8}}$

(18) $\left(2a-\frac{3}{5}\right)\left(2a+\frac{1}{3}\right)$
$= \boldsymbol{4a^2-\frac{8}{15}a-\frac{1}{5}}$

(19) $(4a+2)\left(4a-\frac{6}{5}\right)$
$= \boldsymbol{16a^2+\frac{16}{5}a-\frac{12}{5}}$

(20) $\left(2b-\frac{6}{5}\right)\left(2b+\frac{8}{5}\right)$
$= \boldsymbol{4b^2+\frac{4}{5}b-\frac{48}{25}}$

展開 05-6　　（　　点）（　　分　　秒）

次の式を展開しなさい。（1 問 5 点）

(1) $(x-4)^2$

(2) $\left(y+\frac{7}{3}\right)(y+2)$

(3) $\left(x-\frac{1}{3}\right)\left(x+\frac{3}{2}\right)$

(4) $(y+1)\left(y-\frac{5}{3}\right)$

(5) $\left(x+\frac{4}{3}\right)(x+1)$

(6) $\left(x-\frac{5}{2}\right)\left(x+\frac{5}{2}\right)$

(7) $\left(b+\frac{4}{5}\right)\left(b+\frac{3}{4}\right)$

(8) $\left(x+\frac{3}{2}\right)^2$

(9) $\left(x+\frac{1}{4}\right)(x+4)$

(10) $\left(x-\frac{8}{5}\right)\left(x-\frac{7}{4}\right)$

(11) $(3y-4)(3y-2)$

(12) $\left(5x+\frac{8}{3}\right)\left(5x+\frac{1}{3}\right)$

(13) $(2x+4)\left(2x-\frac{5}{3}\right)$

(14) $\left(3x-\frac{4}{3}\right)^2$

(15) $\left(5x+\frac{7}{2}\right)\left(5x-\frac{7}{2}\right)$

(16) $\left(4x+\frac{1}{2}\right)\left(4x-\frac{2}{3}\right)$

(17) $(2x-2)(2x-1)$

(18) $\left(2x+\frac{4}{5}\right)^2$

(19) $\left(4x+\frac{1}{3}\right)^2$

(20) $\left(3x+\frac{8}{5}\right)\left(3x-\frac{5}{4}\right)$

展開 05-6　　（　　点）（　　分　　秒）

次の式を展開しなさい。（1 問 5 点）

(1) $(x-4)^2 = \boldsymbol{x^2-8x+16}$

(2) $\left(y+\frac{7}{3}\right)(y+2) = \boldsymbol{y^2+\frac{13}{3}y+\frac{14}{3}}$

(3) $\left(x-\frac{1}{3}\right)\left(x+\frac{3}{2}\right) = \boldsymbol{x^2+\frac{7}{6}x-\frac{1}{2}}$

(4) $(y+1)\left(y-\frac{5}{3}\right) = \boldsymbol{y^2-\frac{2}{3}y-\frac{5}{3}}$

(5) $\left(x+\frac{4}{3}\right)(x+1) = \boldsymbol{x^2+\frac{7}{3}x+\frac{4}{3}}$

(6) $\left(x-\frac{5}{2}\right)\left(x+\frac{5}{2}\right) = \boldsymbol{x^2-\frac{25}{4}}$

(7) $\left(b+\frac{4}{5}\right)\left(b+\frac{3}{4}\right) = \boldsymbol{b^2+\frac{31}{20}b+\frac{3}{5}}$

(8) $\left(x+\frac{3}{2}\right)^2 = \boldsymbol{x^2+3x+\frac{9}{4}}$

(9) $\left(x+\frac{1}{4}\right)(x+4) = \boldsymbol{x^2+\frac{17}{4}x+1}$

(10) $\left(x-\frac{8}{5}\right)\left(x-\frac{7}{4}\right) = \boldsymbol{x^2-\frac{67}{20}x+\frac{14}{5}}$

(11) $(3y-4)(3y-2) = \boldsymbol{9y^2-18y+8}$

(12) $\left(5x+\frac{8}{3}\right)\left(5x+\frac{1}{3}\right) = \boldsymbol{25x^2+15x+\frac{8}{9}}$

(13) $(2x+4)\left(2x-\frac{5}{3}\right) = \boldsymbol{4x^2+\frac{14}{3}x-\frac{20}{3}}$

(14) $\left(3x-\frac{4}{3}\right)^2 = \boldsymbol{9x^2-8x+\frac{16}{9}}$

(15) $\left(5x+\frac{7}{2}\right)\left(5x-\frac{7}{2}\right) = \boldsymbol{25x^2-\frac{49}{4}}$

(16) $\left(4x+\frac{1}{2}\right)\left(4x-\frac{2}{3}\right) = \boldsymbol{16x^2-\frac{2}{3}x-\frac{1}{3}}$

(17) $(2x-2)(2x-1) = \boldsymbol{4x^2-6x+2}$

(18) $\left(2x+\frac{4}{5}\right)^2 = \boldsymbol{4x^2+\frac{16}{5}x+\frac{16}{25}}$

(19) $\left(4x+\frac{1}{3}\right)^2 = \boldsymbol{16x^2+\frac{8}{3}x+\frac{1}{9}}$

(20) $\left(3x+\frac{8}{5}\right)\left(3x-\frac{5}{4}\right) = \boldsymbol{9x^2+\frac{21}{20}x-2}$

展開 05-7　　（　　点）（　　分　　秒）

次の式を展開しなさい。（1 問 5 点）

(1) $(a-2)\left(a+\frac{2}{3}\right)$

(2) $(x+1)^2$

(3) $(x-3)\left(x+\frac{7}{3}\right)$

(4) $\left(x+\frac{1}{2}\right)\left(x-\frac{8}{3}\right)$

(5) $\left(a-\frac{7}{3}\right)\left(a+\frac{7}{3}\right)$

(6) $\left(b+\frac{6}{5}\right)^2$

(7) $\left(x-\frac{3}{2}\right)\left(x-\frac{7}{3}\right)$

(8) $\left(x+\frac{1}{5}\right)\left(x-\frac{1}{5}\right)$

(9) $\left(x-\frac{2}{5}\right)\left(x-\frac{5}{4}\right)$

(10) $(a+1)^2$

(11) $\left(4x+\frac{7}{3}\right)^2$

(12) $\left(4y+\frac{8}{3}\right)\left(4y-\frac{8}{3}\right)$

(13) $(5x+3)(5x+2)$

(14) $(5x+1)\left(5x-\frac{5}{2}\right)$

(15) $(4x-1)(4x+1)$

(16) $\left(4b+\frac{7}{4}\right)\left(4b+\frac{7}{2}\right)$

(17) $\left(5y+\frac{5}{2}\right)(5y-4)$

(18) $\left(5x+\frac{2}{5}\right)(5x-4)$

(19) $\left(3x+\frac{7}{2}\right)\left(3x+\frac{2}{5}\right)$

(20) $\left(3x-\frac{3}{2}\right)(3x+3)$

展開 05-7　　（　　点）（　　分　　秒）

次の式を展開しなさい。（1 問 5 点）

(1) $(a-2)\left(a+\frac{2}{3}\right) = \boldsymbol{a^2-\frac{4}{3}a-\frac{4}{3}}$

(2) $(x+1)^2 = \boldsymbol{x^2+2x+1}$

(3) $(x-3)\left(x+\frac{7}{3}\right) = \boldsymbol{x^2-\frac{2}{3}x-7}$

(4) $\left(x+\frac{1}{2}\right)\left(x-\frac{8}{3}\right) = \boldsymbol{x^2-\frac{13}{6}x-\frac{4}{3}}$

(5) $\left(a-\frac{7}{3}\right)\left(a+\frac{7}{3}\right) = \boldsymbol{a^2-\frac{49}{9}}$

(6) $\left(b+\frac{6}{5}\right)^2 = \boldsymbol{b^2+\frac{12}{5}b+\frac{36}{25}}$

(7) $\left(x-\frac{3}{2}\right)\left(x-\frac{7}{3}\right) = \boldsymbol{x^2-\frac{23}{6}x+\frac{7}{2}}$

(8) $\left(x+\frac{1}{5}\right)\left(x-\frac{1}{5}\right) = \boldsymbol{x^2-\frac{1}{25}}$

(9) $\left(x-\frac{2}{5}\right)\left(x-\frac{5}{4}\right) = \boldsymbol{x^2-\frac{33}{20}x+\frac{1}{2}}$

(10) $(a+1)^2 = \boldsymbol{a^2+2a+1}$

(11) $\left(4x+\frac{7}{3}\right)^2 = \boldsymbol{16x^2+\frac{56}{3}x+\frac{49}{9}}$

(12) $\left(4y+\frac{8}{3}\right)\left(4y-\frac{8}{3}\right) = \boldsymbol{16y^2-\frac{64}{9}}$

(13) $(5x+3)(5x+2) = \boldsymbol{25x^2+25x+6}$

(14) $(5x+1)\left(5x-\frac{5}{2}\right)$
$= \boldsymbol{25x^2-\frac{15}{2}x-\frac{5}{2}}$

(15) $(4x-1)(4x+1) = \boldsymbol{16x^2-1}$

(16) $\left(4b+\frac{7}{4}\right)\left(4b+\frac{7}{2}\right)$
$= \boldsymbol{16b^2+21b+\frac{49}{8}}$

(17) $\left(5y+\frac{5}{2}\right)(5y-4)$
$= \boldsymbol{25y^2-\frac{15}{2}y-10}$

(18) $\left(5x+\frac{2}{5}\right)(5x-4)$
$= \boldsymbol{25x^2-18x-\frac{8}{5}}$

(19) $\left(3x+\frac{7}{2}\right)\left(3x+\frac{2}{5}\right)$
$= \boldsymbol{9x^2+\frac{117}{10}x+\frac{7}{5}}$

(20) $\left(3x-\frac{3}{2}\right)(3x+3) = \boldsymbol{9x^2+\frac{9}{2}x-\frac{9}{2}}$

展開 05-8　　（　　点）（　　分　　秒）

次の式を展開しなさい。（1 問 5 点）

(1) $\left(a+\frac{8}{3}\right)\left(a-\frac{8}{3}\right)$

(2) $\left(x-\frac{1}{2}\right)\left(x+\frac{1}{2}\right)$

(3) $\left(y+\frac{2}{3}\right)(y+3)$

(4) $\left(x+\frac{7}{3}\right)\left(x-\frac{1}{2}\right)$

(5) $(b-3)(b+1)$

(6) $\left(x+\frac{7}{3}\right)\left(x-\frac{5}{4}\right)$

(7) $\left(b-\frac{5}{2}\right)\left(b+\frac{5}{2}\right)$

(8) $\left(a+\frac{1}{3}\right)^2$

(9) $(a+4)(a-4)$

(10) $\left(y+\frac{3}{2}\right)\left(y+\frac{3}{4}\right)$

(11) $\left(3y-\frac{1}{3}\right)^2$

(12) $\left(5a+\frac{1}{2}\right)\left(5a+\frac{1}{3}\right)$

(13) $(2x-3)\left(2x+\frac{5}{2}\right)$

(14) $\left(4y-\frac{1}{2}\right)\left(4y-\frac{5}{2}\right)$

(15) $\left(5x-\frac{7}{2}\right)\left(5x+\frac{8}{3}\right)$

(16) $\left(2a+\frac{8}{5}\right)\left(2a+\frac{1}{2}\right)$

(17) $\left(4b-\frac{4}{3}\right)^2$

(18) $\left(4x-\frac{7}{3}\right)\left(4x+\frac{3}{4}\right)$

(19) $\left(5y+\frac{7}{3}\right)^2$

(20) $\left(5a+\frac{8}{5}\right)\left(5a-\frac{8}{5}\right)$

展開 05-8　　（　　点）（　　分　　秒）

次の式を展開しなさい。（1 問 5 点）

(1) $\left(a+\frac{8}{3}\right)\left(a-\frac{8}{3}\right) = \boldsymbol{a^2-\frac{64}{9}}$

(2) $\left(x-\frac{1}{2}\right)\left(x+\frac{1}{2}\right) = \boldsymbol{x^2-\frac{1}{4}}$

(3) $\left(y+\frac{2}{3}\right)(y+3) = \boldsymbol{y^2+\frac{11}{3}y+2}$

(4) $\left(x+\frac{7}{3}\right)\left(x-\frac{1}{2}\right) = \boldsymbol{x^2+\frac{11}{6}x-\frac{7}{6}}$

(5) $(b-3)(b+1) = \boldsymbol{b^2-2b-3}$

(6) $\left(x+\frac{7}{3}\right)\left(x-\frac{5}{4}\right) = \boldsymbol{x^2+\frac{13}{12}x-\frac{35}{12}}$

(7) $\left(b-\frac{5}{2}\right)\left(b+\frac{5}{2}\right) = \boldsymbol{b^2-\frac{25}{4}}$

(8) $\left(a+\frac{1}{3}\right)^2 = \boldsymbol{a^2+\frac{2}{3}a+\frac{1}{9}}$

(9) $(a+4)(a-4) = \boldsymbol{a^2-16}$

(10) $\left(y+\frac{3}{2}\right)\left(y+\frac{3}{4}\right) = \boldsymbol{y^2+\frac{9}{4}y+\frac{9}{8}}$

(11) $\left(3y-\frac{1}{3}\right)^2 = \boldsymbol{9y^2-2y+\frac{1}{9}}$

(12) $\left(5a+\frac{1}{2}\right)\left(5a+\frac{1}{3}\right) = \boldsymbol{25a^2+\frac{25}{6}a+\frac{1}{6}}$

(13) $(2x-3)\left(2x+\frac{5}{2}\right) = \boldsymbol{4x^2-x-\frac{15}{2}}$

(14) $\left(4y-\frac{1}{2}\right)\left(4y-\frac{5}{2}\right) = \boldsymbol{16y^2-12y+\frac{5}{4}}$

(15) $\left(5x-\frac{7}{2}\right)\left(5x+\frac{8}{3}\right) = \boldsymbol{25x^2-\frac{25}{6}x-\frac{28}{3}}$

(16) $\left(2a+\frac{8}{5}\right)\left(2a+\frac{1}{2}\right) = \boldsymbol{4a^2+\frac{21}{5}a+\frac{4}{5}}$

(17) $\left(4b-\frac{4}{3}\right)^2 = \boldsymbol{16b^2-\frac{32}{3}b+\frac{16}{9}}$

(18) $\left(4x-\frac{7}{3}\right)\left(4x+\frac{3}{4}\right) = \boldsymbol{16x^2-\frac{19}{3}x-\frac{7}{4}}$

(19) $\left(5y+\frac{7}{3}\right)^2 = \boldsymbol{25y^2+\frac{70}{3}y+\frac{49}{9}}$

(20) $\left(5a+\frac{8}{5}\right)\left(5a-\frac{8}{5}\right) = \boldsymbol{25a^2-\frac{64}{25}}$

展開 05-9　　（　　点）（　　分　　秒）

次の式を展開しなさい。（1 問 5 点）

(1) $(a+4)\left(a+\frac{4}{3}\right)$

(2) $(x+2)\left(x+\frac{3}{2}\right)$

(3) $\left(x-\frac{7}{2}\right)(x-2)$

(4) $(y+3)^2$

(5) $\left(x+\frac{1}{3}\right)\left(x+\frac{1}{2}\right)$

(6) $(x-2)(x+2)$

(7) $\left(x+\frac{1}{2}\right)^2$

(8) $\left(y-\frac{1}{4}\right)\left(y+\frac{1}{4}\right)$

(9) $\left(x+\frac{7}{4}\right)^2$

(10) $\left(b-\frac{7}{4}\right)\left(b+\frac{1}{4}\right)$

(11) $\left(4x-\frac{1}{2}\right)\left(4x+\frac{2}{3}\right)$

(12) $\left(2y+\frac{4}{3}\right)^2$

(13) $\left(2x+\frac{3}{2}\right)(2x-1)$

(14) $\left(5x-\frac{5}{2}\right)^2$

(15) $\left(5b-\frac{1}{2}\right)\left(5b+\frac{2}{3}\right)$

(16) $\left(2a+\frac{5}{4}\right)\left(2a-\frac{5}{4}\right)$

(17) $\left(2a-\frac{2}{3}\right)^2$

(18) $\left(2a+\frac{2}{5}\right)^2$

(19) $(2x-4)\left(2x+\frac{8}{3}\right)$

(20) $\left(5y+\frac{8}{5}\right)^2$

展開 05-9　　（　　点）（　　分　　秒）

次の式を展開しなさい。（1 問 5 点）

(1) $(a+4)\left(a+\frac{4}{3}\right) = \boldsymbol{a^2+\frac{16}{3}a+\frac{16}{3}}$

(2) $(x+2)\left(x+\frac{3}{2}\right) = \boldsymbol{x^2+\frac{7}{2}x+3}$

(3) $\left(x-\frac{7}{2}\right)(x-2) = \boldsymbol{x^2-\frac{11}{2}x+7}$

(4) $(y+3)^2 = \boldsymbol{y^2+6y+9}$

(5) $\left(x+\frac{1}{3}\right)\left(x+\frac{1}{2}\right) = \boldsymbol{x^2+\frac{5}{6}x+\frac{1}{6}}$

(6) $(x-2)(x+2) = \boldsymbol{x^2-4}$

(7) $\left(x+\frac{1}{2}\right)^2 = \boldsymbol{x^2+x+\frac{1}{4}}$

(8) $\left(y-\frac{1}{4}\right)\left(y+\frac{1}{4}\right) = \boldsymbol{y^2-\frac{1}{16}}$

(9) $\left(x+\frac{7}{4}\right)^2 = \boldsymbol{x^2+\frac{7}{2}x+\frac{49}{16}}$

(10) $\left(b-\frac{7}{4}\right)\left(b+\frac{1}{4}\right) = \boldsymbol{b^2-\frac{3}{2}b-\frac{7}{16}}$

(11) $\left(4x-\frac{1}{2}\right)\left(4x+\frac{2}{3}\right)$
$= \boldsymbol{16x^2+\frac{2}{3}x-\frac{1}{3}}$

(12) $\left(2y+\frac{4}{3}\right)^2 = \boldsymbol{4y^2+\frac{16}{3}y+\frac{16}{9}}$

(13) $\left(2x+\frac{3}{2}\right)(2x-1) = \boldsymbol{4x^2+x-\frac{3}{2}}$

(14) $\left(5x-\frac{5}{2}\right)^2 = \boldsymbol{25x^2-25x+\frac{25}{4}}$

(15) $\left(5b-\frac{1}{2}\right)\left(5b+\frac{2}{3}\right)$
$= \boldsymbol{25b^2+\frac{5}{6}b-\frac{1}{3}}$

(16) $\left(2a+\frac{5}{4}\right)\left(2a-\frac{5}{4}\right) = \boldsymbol{4a^2-\frac{25}{16}}$

(17) $\left(2a-\frac{2}{3}\right)^2 = \boldsymbol{4a^2-\frac{8}{3}a+\frac{4}{9}}$

(18) $\left(2a+\frac{2}{5}\right)^2 = \boldsymbol{4a^2+\frac{8}{5}a+\frac{4}{25}}$

(19) $(2x-4)\left(2x+\frac{8}{3}\right)$
$= \boldsymbol{4x^2-\frac{8}{3}x-\frac{32}{3}}$

(20) $\left(5y+\frac{8}{5}\right)^2 = \boldsymbol{25y^2+16y+\frac{64}{25}}$

展開 05-10　　（　　点）（　　分　　秒）

次の式を展開しなさい。（1 問 5 点）

(1) $(a+2)^2$

(2) $(a-3)\left(a-\frac{1}{3}\right)$

(3) $\left(x+\frac{7}{3}\right)\left(x-\frac{5}{2}\right)$

(4) $(a-2)^2$

(5) $(x+2)(x-2)$

(6) $\left(x-\frac{3}{2}\right)(x-4)$

(7) $\left(y-\frac{7}{4}\right)\left(y-\frac{7}{3}\right)$

(8) $\left(b-\frac{7}{5}\right)\left(b+\frac{5}{4}\right)$

(9) $\left(a-\frac{3}{2}\right)\left(a+\frac{3}{2}\right)$

(10) $\left(x+\frac{7}{4}\right)\left(x+\frac{5}{2}\right)$

(11) $\left(4y+\frac{7}{3}\right)\left(4y+\frac{4}{3}\right)$

(12) $\left(5b+\frac{5}{3}\right)(5b+1)$

(13) $\left(3x-\frac{7}{2}\right)^2$

(14) $\left(3a+\frac{1}{2}\right)\left(3a+\frac{7}{2}\right)$

(15) $(5y-3)\left(5y-\frac{1}{2}\right)$

(16) $(5y-3)\left(5y+\frac{5}{2}\right)$

(17) $\left(3b-\frac{1}{2}\right)^2$

(18) $(5a+3)(5a-3)$

(19) $\left(2b-\frac{7}{4}\right)\left(2b+\frac{6}{5}\right)$

(20) $(4x-1)(4x+1)$

展開 05-10　　（　　点）（　　分　　秒）

次の式を展開しなさい。（1 問 5 点）

(1) $(a+2)^2$ $= \boldsymbol{a^2+4a+4}$

(2) $(a-3)\left(a-\frac{1}{3}\right)$ $= \boldsymbol{a^2-\frac{10}{3}a+1}$

(3) $\left(x+\frac{7}{3}\right)\left(x-\frac{5}{2}\right)$ $= \boldsymbol{x^2-\frac{1}{6}x-\frac{35}{6}}$

(4) $(a-2)^2$ $= \boldsymbol{a^2-4a+4}$

(5) $(x+2)(x-2)$ $= \boldsymbol{x^2-4}$

(6) $\left(x-\frac{3}{2}\right)(x-4)$ $= \boldsymbol{x^2-\frac{11}{2}x+6}$

(7) $\left(y-\frac{7}{4}\right)\left(y-\frac{7}{3}\right)$
$= \boldsymbol{y^2-\frac{49}{12}y+\frac{49}{12}}$

(8) $\left(b-\frac{7}{5}\right)\left(b+\frac{5}{4}\right)$ $= \boldsymbol{b^2-\frac{3}{20}b-\frac{7}{4}}$

(9) $\left(a-\frac{3}{2}\right)\left(a+\frac{3}{2}\right)$ $= \boldsymbol{a^2-\frac{9}{4}}$

(10) $\left(x+\frac{7}{4}\right)\left(x+\frac{5}{2}\right)$
$= \boldsymbol{x^2+\frac{17}{4}x+\frac{35}{8}}$

(11) $\left(4y+\frac{7}{3}\right)\left(4y+\frac{4}{3}\right)$
$= \boldsymbol{16y^2+\frac{44}{3}y+\frac{28}{9}}$

(12) $\left(5b+\frac{5}{3}\right)(5b+1)$
$= \boldsymbol{25b^2+\frac{40}{3}b+\frac{5}{3}}$

(13) $\left(3x-\frac{7}{2}\right)^2$ $= \boldsymbol{9x^2-21x+\frac{49}{4}}$

(14) $\left(3a+\frac{1}{2}\right)\left(3a+\frac{7}{2}\right)$
$= \boldsymbol{9a^2+12a+\frac{7}{4}}$

(15) $(5y-3)\left(5y-\frac{1}{2}\right)$
$= \boldsymbol{25y^2-\frac{35}{2}y+\frac{3}{2}}$

(16) $(5y-3)\left(5y+\frac{5}{2}\right)$
$= \boldsymbol{25y^2-\frac{5}{2}y-\frac{15}{2}}$

(17) $\left(3b-\frac{1}{2}\right)^2$ $= \boldsymbol{9b^2-3b+\frac{1}{4}}$

(18) $(5a+3)(5a-3)$ $= \boldsymbol{25a^2-9}$

(19) $\left(2b-\frac{7}{4}\right)\left(2b+\frac{6}{5}\right)$
$= \boldsymbol{4b^2-\frac{11}{10}b-\frac{21}{10}}$

(20) $(4x-1)(4x+1)$ $= \boldsymbol{16x^2-1}$