

答 之

□1 (1) a^9 (2) a^8 (3) a^{15} (4) a^{32} (5) a^2b^8

(6) $a^{18}b^{30}$

□2 (1) $6x^8$ (2) $-45x^5y$ (3) $810x^{14}$ (4) $108x^5y^9$

□3 (1) x^2+6x+9 (2) $x^2-10x+25$

(3) $16x^2+24xy+9y^2$ (4) $x^2-8xy+16y^2$

(5) $9x^2-4$ (6) $25x^2-4y^2$

□4 (1) $2x^2+15x+18$ (2) $15x^2+23x-28$

(3) $2x^3-27x+20$ (4) $8x^3-32x^2+20x-21$

□5 (1) $(x+1)(x+8)$ (2) $(x-2)(x+3)$

(3) $(x-1)(x-2)$ (4) $(x+1)(x-9)$

(5) $(x+1)(x-5)$ (6) $(x-3)(x-6)$

□6 (1) $(x+2)^2$ (2) $(x-7)^2$ (3) $(x+5)(x-5)$

□7 (1) $(4x+1)^2$ (2) $(2x-7y)^2$

(3) $(9x+5y)(9x-5y)$ (4) $(x-2)(x+15)$

□8 (1) $x=1, 3$ (2) $x=-2, -5$

(3) $x=-5, 5$ (4) $x=0, -7$

□9 (1) $x=-1, -\frac{2}{3}$ (2) $x=-2, -\frac{1}{3}$

(3) $x=-3, \frac{1}{2}$ (4) $x=2, \frac{3}{2}$

(5) $x=2, -\frac{7}{2}$ (6) $x=5, -\frac{3}{2}$

(7) $x=-\frac{5}{2}, \frac{1}{3}$

□10 (1) $x=\frac{1\pm\sqrt{13}}{2}$ (2) $x=\frac{-7\pm\sqrt{37}}{2}$

(3) $x=\frac{3\pm3\sqrt{5}}{2}$ (4) $x=\frac{-3\pm\sqrt{41}}{8}$

□11 (1) $x=\frac{2\pm\sqrt{6}}{2}$ (2) $x=-2\pm2\sqrt{2}$

(3) $x=2\pm\sqrt{3}$ (4) $x=\frac{1\pm\sqrt{21}}{4}$