

同類項をまとめる② 解答と解説

- 1 解答 (1) $4a$ (2) $-3x$ (3) $-3mn$ (4) $-4pq$ (5) $-8x+4y$
 (6) $6a-3b$ (7) $11s+2t$ (8) $7p-9q$ (9) $-5x+4y$
 (10) $-x+6y-2$ (11) $4a+3b+9$ (12) $5s-15t-2$
 (13) $3x-30y-22$ (14) $-41p-2q+51$

- (1) $6a-2a=(6-2)a$
 $=4a$
 (2) $3x+2x-8x=(3+2-8)x$
 $=-3x$
 (3) $4mn-7mn=(4-7)mn$
 $=-3mn$
 (4) $-3pq-pq=(-3-1)pq$
 $=-4pq$
 (5) $x-3y-9x+7y=x-9x-3y+7y$
 $=(1-9)x+(-3+7)y$
 $=-8x+4y$
 (6) $-a+2b+7a-5b=-a+7a+2b-5b$
 $=(1-1+7)a+(2-5)b$
 $=6a-3b$
 (7) $2s-4t+9s+6t=2s+9s-4t+6t$
 $=(2+9)s+(-4+6)t$
 $=11s+2t$
 (8) $5p-8q+2p-q=5p+2p-8q-q$
 $=(5+2)p+(-8-1)q$
 $=7p-9q$
 (9) $-8x+6y-2y+3x=-8x+3x+6y-2y$
 $=(1-8+3)x+(6-2)y$
 $=-5x+4y$
 (10) $3x-y+3+7y-4x-5=3x-4x-y+7y+3-5$
 $=(3-4)x+(-1+7)y+(3-5)$
 $=-x+6y-2$
 (11) $5a+6b+8-a-3b+1=5a-a+6b-3b+8+1$
 $=(5-1)a+(6-3)b+(8+1)$

- $=4a+3b+9$
 (12) $-s-8t+2+6s-7t-4=-s+6s-8t-7t+2-4$
 $=(1-1+6)s+(-8-7)t+(2-4)$
 $=5s-15t-2$
 (13) $26x-17y+12-23x-13y-34=26x-23x-17y-13y+12-34$
 $=(26-23)x+(-17-13)y+(12-34)$
 $=3x-30y-22$
 (14) $-16p+29q+37-31q-25p+14=-16p-25p+29q-31q+37+14$
 $=(1-16-25)p+(29-31)q+(37+14)$
 $=-41p-2q+51$

- 2 解答 (1) x^2+3x-4 (2) $-x^3-x^2-x+3$ (3) $5a^2+5ab-3b^2$
 (4) $6x^2-2y^2$ (5) $-ab-10bc-5ca$ (6) $3x^2-xy+y^2+3x$

- (1) $7x^2-3x-2-6x^2+6x-2=7x^2-6x^2-3x+6x-2-2$
 $=x^2+3x-4$
 (2) $2x^3-5x+3+4x-3x^3-x^2=2x^3-3x^3-x^2-5x+4x+3$
 $=-x^3-x^2-x+3$
 (3) $a^2+2ab-2b^2+3ab+4a^2-b^2=a^2+4a^2+2ab+3ab-2b^2-b^2$
 $=5a^2+5ab-3b^2$
 (4) $-3xy+x^2+2y^2-4y^2+5x^2+3xy=-3xy+3xy+x^2+5x^2+2y^2-4y^2$
 $=6x^2-2y^2$
 (5) $5ab-3bc-6ab+2ca-7bc-7ca=5ab-6ab-3bc-7bc+2ca-7ca$
 $=-ab-10bc-5ca$
 (6) $4x^2-5xy-y^2+3x+4xy+2y^2-x^2=4x^2-x^2-5xy+4xy-y^2+2y^2+3x$
 $=3x^2-xy+y^2+3x$