1 $\frac{x-y}{3}-\frac{x+2y}{4}$

$= \frac{4(x-y)}{12} - \frac{3(x+2y)}{12}$

$= \frac{4x-4y-3x-6y}{12} = \frac{x-10y}{6}$ //

Point
引き算がよく出題されるので符号の扱いに注意

2 $\frac{4a-3b}{5}-\frac{2a-5b}{3}$

$= \frac{3(4a-3b)}{15} - \frac{5(2a-5b)}{15}$

$= \frac{12a-9b-10a+25b}{15} = \frac{2a+16b}{15}$ //

3 $\frac{2x-4y}{7}-\frac{x-3y}{5}$

$= \frac{5(2x-4y)}{35} - \frac{7(x-3y)}{35}$

$= \frac{10x-20y-7x+21y}{35} = \frac{3x+y}{35}$ //

4 $(-36ab^2)\div\frac{3}{2}ab\times\left(-\frac{7}{6}a^2b\right)$

$= -\cancel{36}^{\cancel{12}\,4}\cancel{a}\cancel{b^2} \times \frac{\cancel{2}}{\cancel{3}\cancel{ab}_{1}} \times \left(-\frac{7a^2b}{\cancel{6}\,\cancel{3}}\right) = 28a^2b^2$ //

5 $2x^2y^2\times(-2xy)\div 8xy^2$

$= \frac{\cancel{2}x^2\cancel{y^2} \times (-\cancel{2}\cancel{x}y)}{2\,\cancel{8}\,\cancel{x}\,\cancel{y^2}} = -\frac{x^2y}{2}$ //

$-\frac{1}{2}x^2y$ も可

6 $4ab^2\times(-3a)^2\div 2b^2$

$= \cancel{4}^{2}\cancel{a}\cancel{b^2} \times 9a^2 \times \frac{1}{\cancel{2}\cancel{b^2}_{1}}$

$= 18a^3$ //

Point
約分を多く使うので何の数や文字がどれだけ残っているか気をつけよう

（　　）組（　　）番　名前（　　）

7 $(-2x)^2 \div 6xy^2 \times 3y^2$

$= 4x^2 \times \frac{1}{6xy^2} \times 3y^2$

$= 2x$

8 $9a^2 \div 3ab \times (-b)$

$= 9a^2 \times \frac{1}{3ab} \times (-b)$

$= -3a$

9 $2xy \times 3x^2 \div \frac{12}{5}xy^2$

$= 2xy \times 3x^2 \times \frac{5}{12xy^2}$

$= \frac{5x^2}{2y}$

10 $16a^2b \div (-10ab^2) \times 5b$

$= \frac{16a^2b \times 5b}{-10ab^2}$

$= -8a$

11 $(-9a^2) \div 21a \times 7b$

$= \frac{-9a^2 \times 7b}{21a}$ $= -3ab$

12 $4ab^2 \times \left(-\frac{3a}{2}\right)^2 \div 3a^2b$

$= 4ab^2 \times \frac{9a^2}{4} \times \frac{1}{3a^2b}$

$= 3ab$

13 $12xy^2 \div 3y \div (-2x)$

$= \frac{12xy^2}{3y \times (-2x)}$ $= -2y$

14 $\frac{5x+7y}{2} + x - 4y$ 通分

$= \frac{5x+7y}{2} + \frac{2(x-4y)}{2}$

$= \frac{5x+7y+2x-8y}{2}$

$= \frac{7x-y}{2}$