Combining like terms

1. Simplify each expression by combining like terms.

a) $3a + 2a$ b) $5x - 3x$ c) $2x^2 + 4x^2$

d) $\frac{3}{7} + \frac{2}{7}$ e) $\frac{5}{11} - \frac{3}{11}$ f) $\frac{2}{x^2} + \frac{4}{x^2}$

g) $5a - 3a + 4a$ h) $-x + 3x - 9x$

2. Simplify each expression.

a) $3k + 2k - 4 - 1$ b) $2x - 3 + x - 4$

c) $-4 - 3a + 1 - 2a$ d) $\frac{2}{7} - \frac{3}{5} + \frac{1}{7} - \frac{4}{5}$

e) $7k - 5 - 3k - 2 + x$ f) $2a - (-4) + (-a) - 1$

Combining like terms

1. Simplify each expression by combining like terms.

a) $3a + 2a$

$5a$

b) $5x - 3x$

$2x$

c) $2x^2 + 4x^2$

$6x^2$

d) $\frac{3}{7} + \frac{2}{7}$

$\frac{5}{7}$

e) $\frac{5}{11} - \frac{3}{11}$

$\frac{2}{11}$

f) $\frac{2}{x^2} + \frac{4}{x^2}$

$\frac{6}{x^2}$

g) $5a - 3a + 4a$

$2a + 4a$

$6a$

h) $-x + 3x - 9x$

$2x - 9x$

$-7x$

2. Simplify each expression.

a) $3x + 2x - 4 - 1$

$5x - 5$

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

$3x - 7$

c) $-4 - 3a + 1 - 2a$

$a - 3$

d) $\frac{2}{7} - \frac{3}{5} + \frac{1}{7} - \frac{4}{5}$

$\frac{3}{7} - \frac{7}{5} = -\frac{34}{35}$

e) $7x - 5 - 3x - 2 + x$

$5x - 7$

f) $2a - (-4) + (-a) - 1$

$2a + 4 - a - 1$

$a + 3$