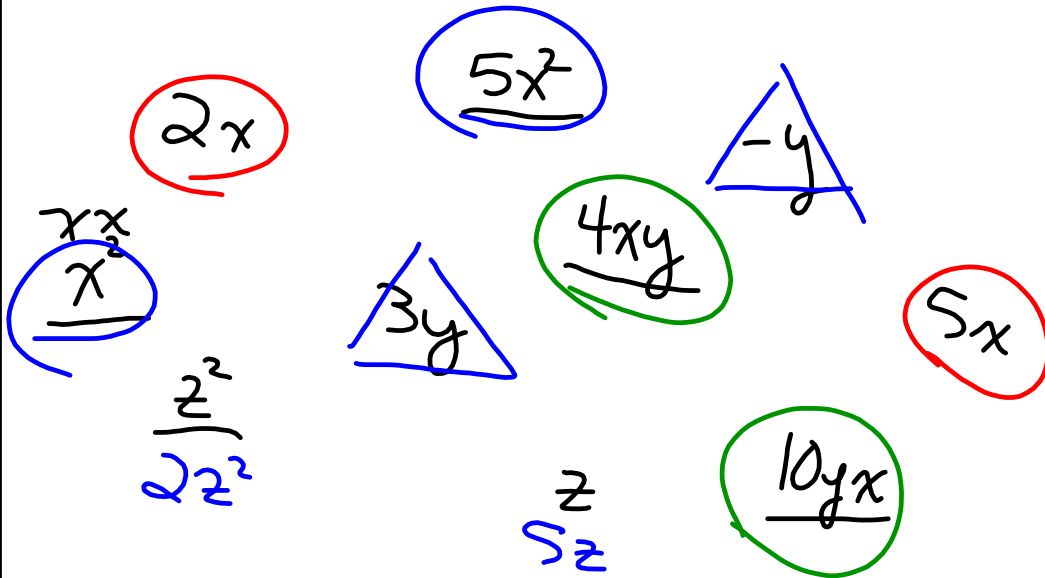


Like TermsFeb 22

Like terms have the same variable and exponent.

$6x$  is like  $\underline{5x}$ .

$5x^2y$  is like  $\underline{-7x^2y}$ .

$4xz^2$  is like  $\underline{7xz^2}$ .

We need like terms to add or subtract.

Simplify.

$$\begin{aligned} \text{a) } 5x + 3x \\ = 8x \end{aligned}$$

$$\begin{aligned} \text{b) } 3x - 2 + 4x - 5 \\ = 3x + 4x - 2 - 5 \\ = 7x - 7 \end{aligned}$$

$$\begin{aligned} \text{c) } 3x - 4y + 6 - 3x - 2y \\ = 3x - 3x - 4y - 2y + 6 \\ = -6y + 6 \\ = 6 - 6y \end{aligned}$$

$$\begin{aligned} \text{d) } 5x^2 + 3y - 6x^2 + 5 - 4y + z \\ = 5x^2 - 6x^2 + 3y - 4y + 5 + z \\ = -x^2 - y + z + 5 \end{aligned}$$

$$\begin{aligned} \text{e) } 5t^2 - 4r + 6 - 5t + 6t^2 - 4r + 10 \\ = 5t^2 + 6t^2 - 4r - 4r + 6 + 10 - 5t \\ = 11t^2 - 8r + 16 - 5t \\ = 11t^2 - 8r - 5t + 16 \end{aligned}$$

$$\begin{aligned} f) & -3m^2 - 4n^2 + 6mn + 5n^2 - 2m^2 + 7 \\ & = -3m^2 - 2m^2 - 4n^2 + 5n^2 + 6mn + 7 \\ & = -5m^2 + n^2 + 6mn + 7 \end{aligned}$$