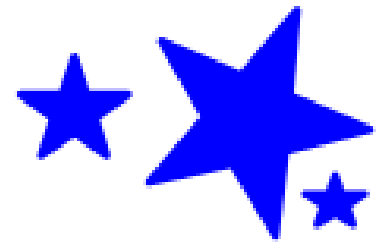


$$5 - 5$$

Combine Like Terms

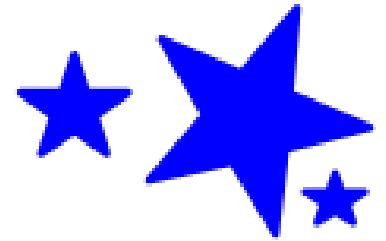
terms: parts of a variable



expression separated by + or -

$$\underline{x^2} \oplus \underline{3y} \ominus \underline{7} \oplus \underline{2x}$$

like terms: same variable to
the same power



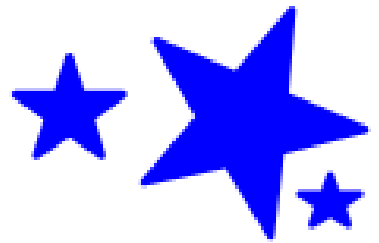
$5x$ and $-2x$

$3y^2$ and $2y^2$

unlike terms: $5x$ and $5x^2$

$3x^2$ and $2y$

Determine whether the following
are like or unlike terms.



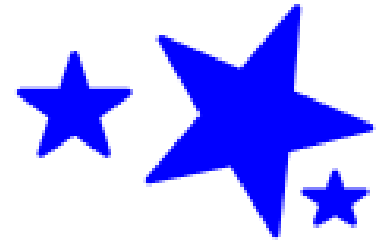
Ex: $3x$, $3y$ unlike

Ex: $7x$, $-4x$ like

Ex: $2p$, $2pt$ unlike

Ex: $7x$, $7x^2$ unlike

Simplify by combining like terms.

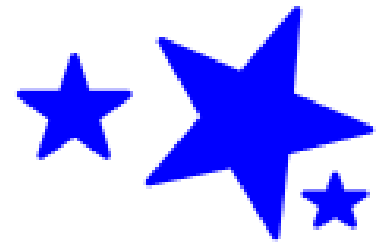


$$\text{Ex: } \underline{3m + 5m} = 8m$$

$$\text{Ex: } \underline{8x - 3x} + 2y - 4$$

$$5x + 2y - 4$$

Simplify by combining like terms.



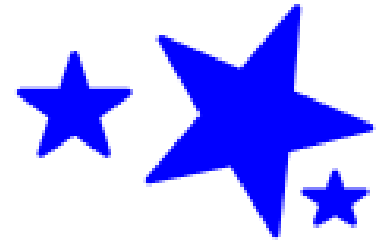
Ex: 4k - 2h + 3k

$7k - 2h$

Ex: 3a - 2b² - 1a + 2b

$2a - 2b^2 + 2b$

Simplify by combining like terms.



$$\text{Ex: } \underline{6c} + \underline{4b} - \underline{2c} - \underline{8b}$$

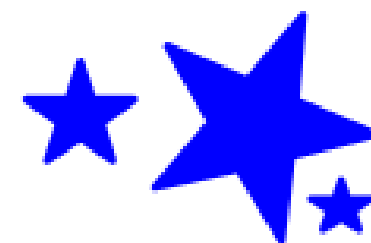
$$4c - 4b$$

$$\text{Ex: } 14m - 5(m - 2)$$

$$\underline{14m - 5m} + 10$$

$$9m + 10$$

Solve each equation.



$$\text{Ex: } 5x - 7 = \cancel{3x} + 13$$

$-3x$ $-3x$

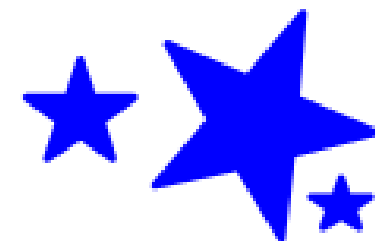
$$2x - \cancel{7} = 13$$

$+7$ $+7$

$$\cancel{2x} = \frac{20}{2}$$

$$x = 10$$

Solve each equation.



$$\text{Ex: } 4 - 2x = 7x - 23$$

~~-7x~~ ~~-7x~~

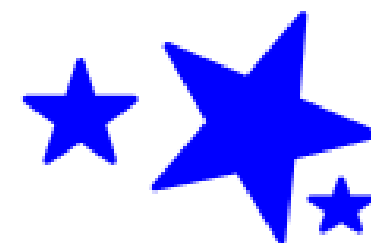
$$\cancel{4} - 9x = -23$$

~~-4~~ -4

$$\frac{\cancel{-9x}}{\cancel{-9}} = \frac{-27}{-9}$$

$$x = 3$$

Solve each equation.



$$\text{Ex: } 5x + 3 = 31 - 2x$$

(Handwritten red annotations: +2x under 5x, -2x under -2x)

$$7x + 3 = 31$$

(Handwritten red annotations: -3 under +3, -3 under =31)

$$7x = 28$$

(Handwritten red annotations: /7 under 7x, /7 under 28)

$$x = 4$$

(Handwritten blue circle around the final answer)