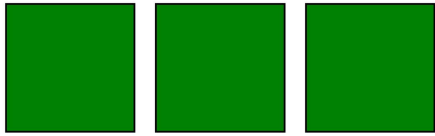


Like Terms

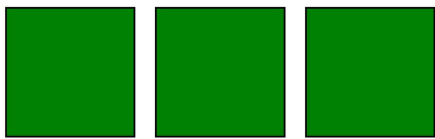
Like Terms



expression: $3x^2$



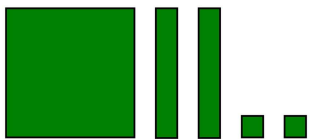
+ $2x^2$ = $5x^2$



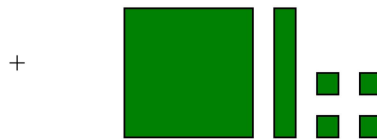
expression: $3x^2$



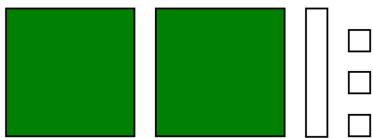
+ $-2x^2$ = x^2



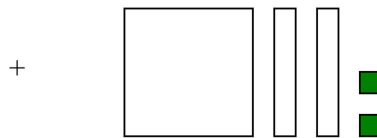
expression: $x^2 + 2x + 2$



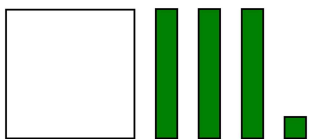
+ $x^2 + x + 4$ = $2x^2 + 3x + 6$



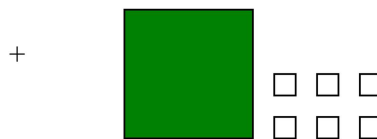
expression: $2x^2 - x - 3$



+ $-x^2 - 2x + 2$ = $x^2 - 3x - 1$



expression: $-x^2 + 3x + 1$



+ $x^2 - 6$ = $3x - 5$

Examples:

Identify the like terms in each group.

a) $2x$, 2 , $5x$, $3xy$, $3x$

d) $5a^2b$, $-2ab$, $11ab^2$, $7ba$
 $= 7ab$

b) $4a^2$, $2a$, $-a^2$, a^3 , a^2b

c) $3u^2$, $-4uv$, 6 , $2u^2$, $0.5v$, -5

Add like terms.

$$4x + 3x = 7x$$

$$\underline{4x + 3} + \underline{2x + 5} = 6x + 8$$

Subtract like terms.

$$8x - 3x = 5x$$

$$2x - 5x = -3x$$

Collect like terms.

$$\underline{5k - 3k} - \underline{6 + 3} = 2k - 3$$

$$\underline{3c^2 + c} - \underline{2 - 5c} - \underline{4c^2} = -c^2 - 4c - 2$$

Simplify each expression.

a) $\underline{6x + 4} + \underline{8x + 3} = 14x + 7$

b) $2b - b + 7 - 8 = b - 1$

c) $\underline{3r^2 + 2} - \underline{6r + 9r} - \underline{3r^2} = 2 + 3r$
 $= 3r + 2$

d) $\underline{0.5m - 4.5n} + \underline{0.7m + 4.5n} - 1.5 = 1.2m - 1.5$

Assignment: p.187 #6 – 8, 10, 16, 18 – 22