

L.T.: I can use the distributive property and combine like terms 8/28

Combining Like Terms:

1. Group x terms together
2. Group y terms together
3. Group x^2 terms together
4. Group values together

Ex 1:

$$\textcircled{2} + \boxed{3b} + \textcircled{4x^2} - \boxed{6b} + \textcircled{12x} + \textcircled{13x^2} + \textcircled{4}$$

6 $-3b$ $17x^2$

$$\boxed{6 - 3b + 17x^2 + 12x}$$

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Distributive Property:

a. $4(x+3)$
 $4x+12$

b. $5x(x+2)$
 $5x^2+10x$

Solving Equations

a. $2x+3 = 15$
 $\downarrow -3 \quad -3$

$$\frac{2x}{2} = \frac{12}{2}$$

$$x = 6$$

b. $4(x+3) = 8$

$$4x+12 = 8$$

$$-12 = -12$$

$$\frac{4x}{+4} = \frac{-4}{+4}$$

$$x = -1$$