

Warm-up 2/24/17

Rewrite using the distributive property.

1. $4(3 + 6) = 4(3) + 4(6) = 12 + 24 = 36$

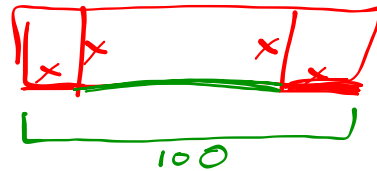
2. $-5(x + 7) = -5x + (-5)(7) = -5x - 35$

3. $x(-2 - 9) = -2x - 9x = -11x$

4. $x(8 + x) = 8x + x^2$

Pg. 858-859

1.

a. x b. $100 - 2x$ c. $x(100 - 2x)$

2. $100x - 2x^2$

3. $-2x^2 + 100x + 0$

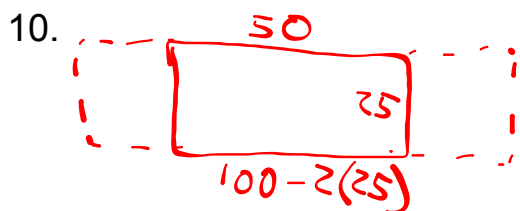
a: -2

b: 100

c: 0

Pg. 860-861

$$A(x) = -2x^2 + 100x$$

9. $(25, 1250)$ 

Pg. 862-863

$$2 \cdot \frac{1}{2}$$

$$3 \cdot \frac{2}{2}$$

$$4 \cdot \frac{3}{2}$$

$$5 \cdot \frac{4}{2}$$

$$6 \cdot \frac{5}{2}$$

$$7 \cdot \frac{6}{2}$$

$$n \cdot \frac{n-1}{2} = \frac{n(n-1)}{2}$$

$$\frac{n^2 - n}{2} = \frac{1}{2}n^2 - \frac{1}{2}n$$