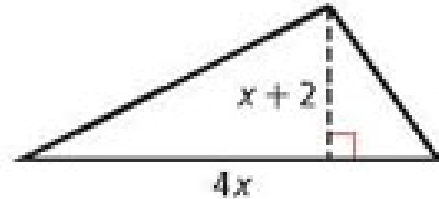


Ch 1 Review Questions

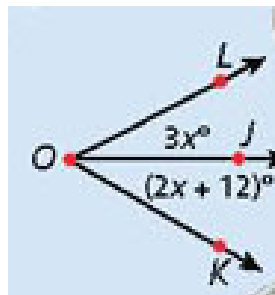
Row _____

1. Suppose point S is between points R and T. Find x if $RS = 2x + 6$, $ST = 4x - 3$, and $RT = 5x + 12$.
2. The measure of an angle is 6 more than twice its complement. Find the measure of the angle.

3. Find the area of the triangle in terms of x.



4. What value of x will make the following equation true?
 $m\angle LOK = 57^\circ$



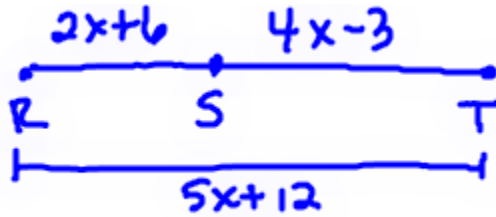
5. If point A is (-3,2) and point B is (9, 6), what is AB?

Ch 1 Review Questions

Row _____

1. Name _____

Suppose point S is between points R and T. Find x if $RS = 2x + 6$, $ST = 4x - 3$, and $RT = 5x + 12$.



$$2x + 6 + 4x - 3 = 5x + 12$$

$$6x + 3 = 5x + 12$$

$$x = 9$$

2. Name _____

The measure of an angle is 6 more than twice its complement. Find the measure of the angle.

$$a + c = 90$$

$$2c + 6 + c = 90$$

$$3c = 84$$

$$c = 28$$

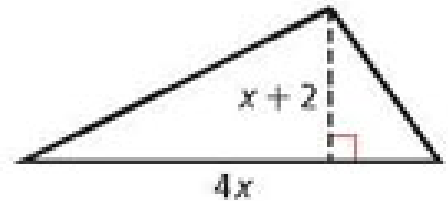
$$a = 2c + 6$$

$$a = 2(28) + 6$$

$$a = 62$$

3. Name _____

Find the area of the triangle in terms of x.



$$A = \frac{1}{2}bh$$

$$A = 2x(x+2)$$

$$A = \frac{1}{2}(4x)(x+2)$$

$$A = (2x^2 + 4x) \text{ units}^2$$

4. Name _____

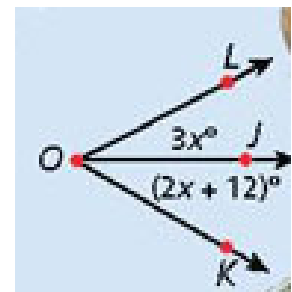
What value of x will make the following equation true?

$$m\angle LOK = 57^\circ$$

$$3x + 2x + 12 = 57$$

$$5x = 45$$

$$x = 9$$



5. Name _____

If point A is $(-3, 2)$ and point B is $(9, 6)$, what is AB?

$$AB = \sqrt{(9+3)^2 + (6-2)^2}$$

$$AB = \sqrt{12^2 + 4^2} = \sqrt{144 + 16} = \sqrt{160} = 4\sqrt{10}$$