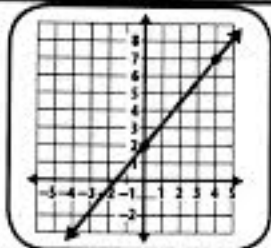


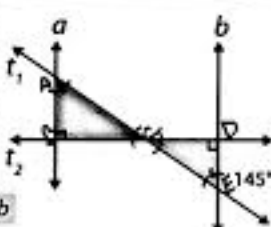
## Lesson #127

1.  
8.F.2

$$\frac{5}{4} = 1.25$$

$$y = \frac{5}{2}x + 3$$

$$\frac{5}{2} = 2.5$$

2.  
8.G.7length of ladder  
= 13 ft3.  
8.G.5Yes, they are  
similar.  
Congruent  
angles have  
been marked.4.  
8.EE.7

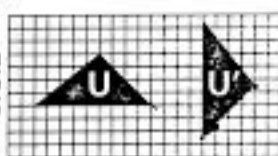
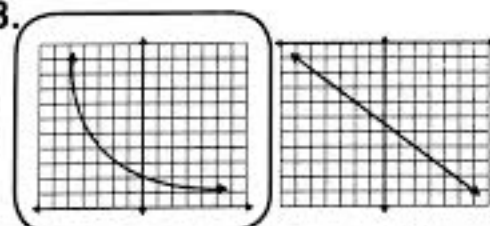
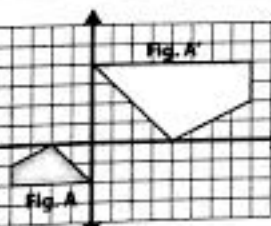
$$e = 3$$

5.  
8.G.8

$$9 - 1.5 = 7.5 \quad a^2 + b^2 = c^2$$

$$33 - 20.5 = 12.5 \quad 7.5^2 + 12.5^2 = c^2$$

The distance is 14.58 units.

6.  
8.G.2congruent;  
rotation  $90^\circ$   
clockwise  
and move to  
the right7.A)  
8.SP.3One snow shovel is sold for every 1.2  
inches of snow.B) On average, a sales associate can  
expect to sell between 1 and 2 shovels  
on a day with no snow.C) 1.2 snow shovels are sold for every  
inch of snow.8.  
8.F.39.  
8.G.4similar;  
rotated  $180^\circ$   
dilated by  
scale factor  
of 210.  
8.G.9

$$V = \frac{1}{3} \pi r^2 h \quad \frac{1}{3} \cdot \frac{22}{7} \cdot \frac{21}{1} \cdot \frac{21}{21}$$

$$\frac{1}{3} \cdot \frac{22}{7} \cdot 21^2 \cdot \frac{3}{2} = \frac{44}{7} \text{ cm}^3$$

$$V = \frac{44}{7} \text{ cm}^3$$

11.  
8.SP.4

	In Key Club	Not in Key Club	Total
In Spanish Club	17	5	22
Not in Spanish Club	24	87	111
Total	41	92	133

12.  
8.EE.8

$$3x + 7y = 3 \quad \downarrow +7y = 1$$

$$-(x + 7y = 1) \quad \downarrow -1$$

$$-x - 7y = -1 \quad (1, 0) \quad \frac{7y = 0}{7}$$

$$2x = 2 \quad y = 0$$

$$x = 1$$