

Name:

#:

127

# HOMWORK 8.3

Secondary Math II

**Turned in  
On Time**

(4 pts.)

0A. (2 pt.) Simplify, write in exact form.  $\sqrt[3]{108}$

0B. (2 pt.) Simplify, write in exact form.  $\sqrt[4]{128}$

## Review

1. (2 pt.) Solve for x.

$$x^2 - 8x - 9 = 0$$

2. (2 pt.) Solve for x.

$$x^2 + 4x + 4 = 0$$

3. (2 pt.) Solve for x.

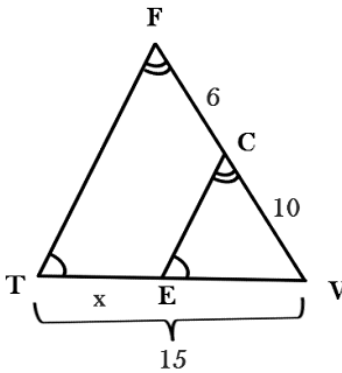
$$2x^2 + 2x + 3 = 0$$

Solve for the missing value.

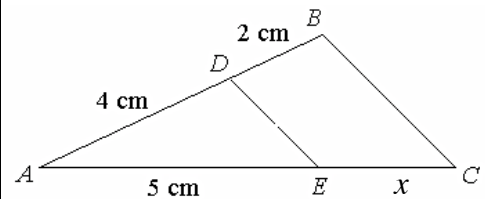
**Classroom Exercise #4**

(4 pts.)

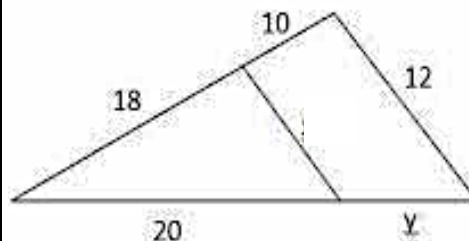
4A. (1 pt.)



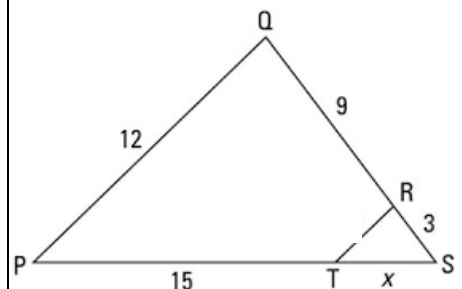
4B. (1 pt.)



4C. (1 pt.)



4D. (1 pt.)



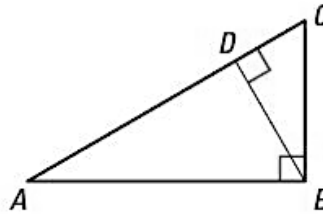
Identify the similar triangles in the figures below and write a similarity statement.

**Classroom Exercise #5**

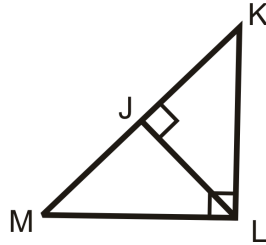
(3 pts.)



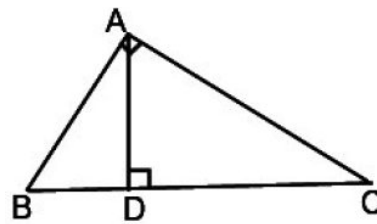
5A. (1pt.)



5B. (1pt.)

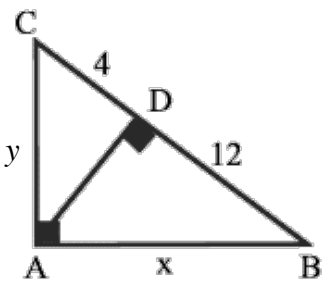


5C. (1pt.)

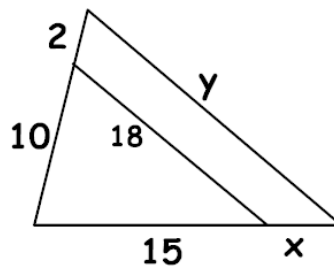


Identify similar triangles. Solve for the missing values.

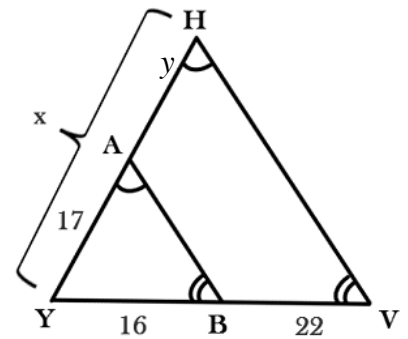
6. (2 pt.)



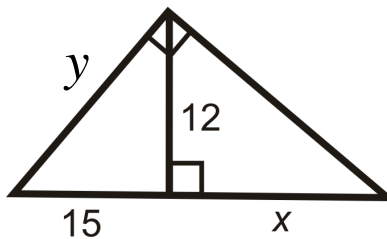
7. (2 pt.)



8. (2 pt.)



9. (2 pt.)



10. (2 pt.) To estimate the height of a monorail track, your friend holds a cardboard square at eye level. Your friend lines up the top edge of the square with the track and the bottom edge with the ground. You measure the distance from the ground to your friend's eye and the distance from your friend to the track. Let  $h$  be the track height. Determine the height of the rail.

