Name: _____

Date: _____ Period: _____
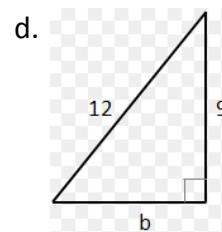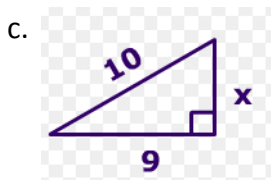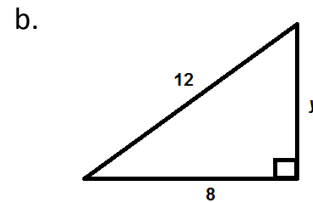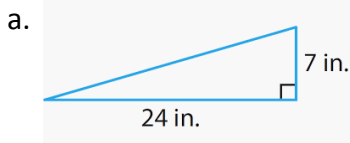
1. Simplify the radicals.

a. $\sqrt{96}$ 　　　　　　　b. $\sqrt{361}$ 　　　　　　c. $\sqrt{54}$ 　　　　　　d. $\sqrt{242}$

2. Find the missing variable. Leave answers as simplified radicals – NO Decimals!

a.

7 in.

24 in.

b.

12

y

8

c.

10

x

9

d.

12

9

b

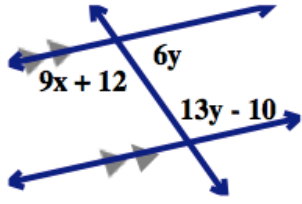3. a. Find the slope of the line through the points A(3,6) and B(4,-7)

b. Write the equation of a line parallel to this line with y-intercept 5.

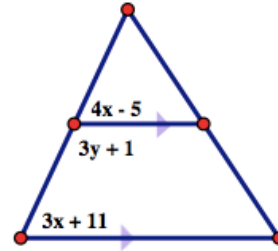c. Find the distance between these points.

d. Find the midpoint between these points.
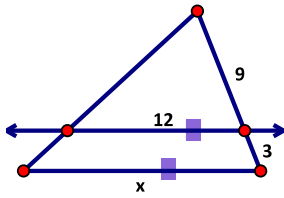
Find the missing variables.

4.

6y

9x + 12

13y - 10

5.

4x - 5

3y + 1

3x + 11

6.

9

12

3

x

7.

8

2.5

x

2