

Homework 3.3 due Fri 11/14 *FOUR Problems Require Work*

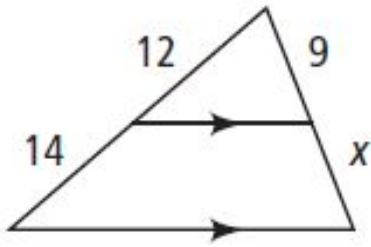
17 Questions

NAME : _____

CLASS : _____

DATE : _____

1.



WORK REQUIRED: Solve for x

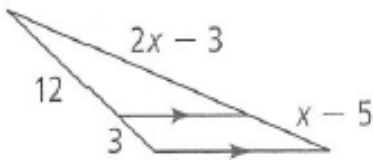
a) 7.7

b) 18.7

c) 11

d) 10.5

2.



WORK REQUIRED: Solve for the variable x Remember to use the distributive property!

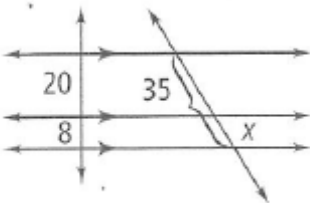
a) $x = 8.5$

b) $x = 10$

c) $x = 1$

d) $x = 2$

3.



If 35 encompasses the two segments, solve for x. Hint: use 28 for one of the ratio components as it corresponds to 35.

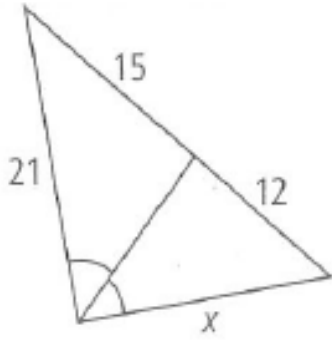
a) $x = 10$

b) $x = 25$

c) $x = 11.7$

d) $x = -25$

4.



WORK REQUIRED: Solve for x

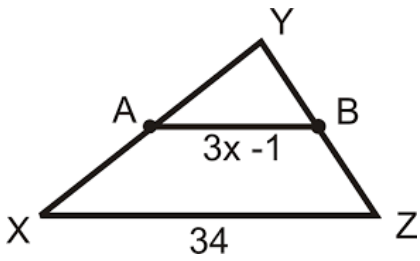
a) $x = 16.8$

b) $x = 26.3$

c) $x = 8.6$

d) $x = 2.4$

5.



Find the length of AB [Hint: AB is the midsegment so it is half the length of XZ](#)

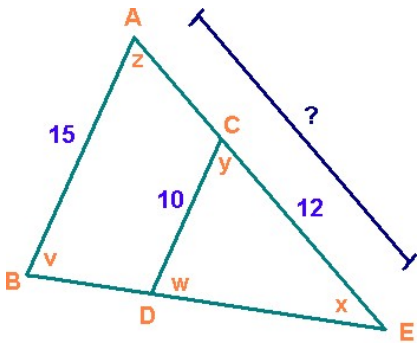
a) 6

b) 11

c) 17

d) 68

6.



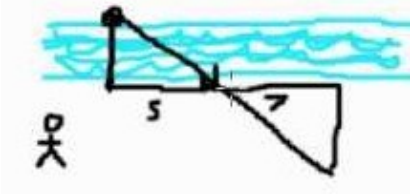
WORK REQUIRED: If the triangles are similar, solve for the question mark. [Hint: draw the two triangles to see the corresponding parts](#)

a) 8

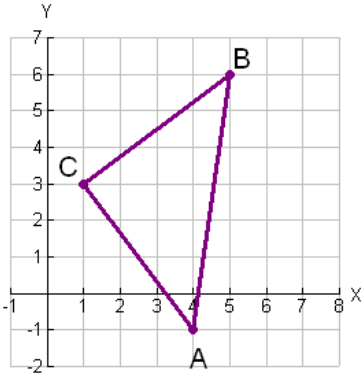
b) 12.5

c) 18

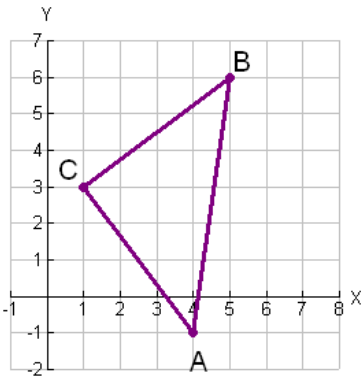
d) 24

11.  Estimate the width of the river (left side of shaded triangle), knowing that the right side of the other triangle is 10 meters.

- a) 14 meters
- b) 3.5 meters
- c) 7.1 meters
- d) 8 meters

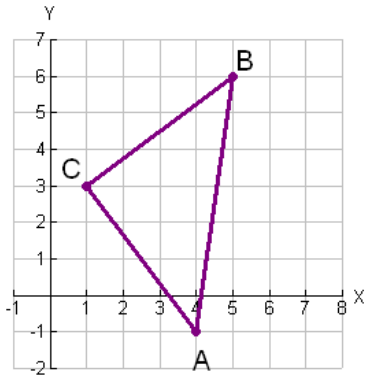
12.  Mark the coordinates that are correctly identified in the triangle

- a) A(4,-1)
- b) A(-1,4)
- c) B(6,5)
- d) B(5,6)
- e) C(1,3)

13.  If A is reflected across the x-axis, what is its image?

- a) A'(4,-1)
- b) A'(-4,-1)
- c) A'(4,1)
- d) A'(-4,1)

14.



If point A is rotated 180 degrees, what would its image be?

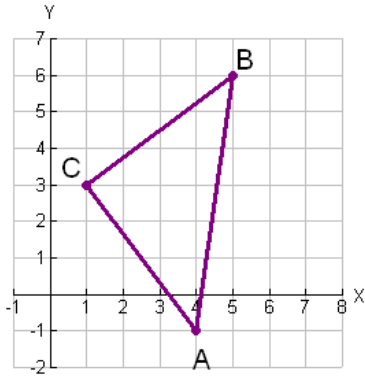
a) $A'(4,-1)$

b) $A'(-1,4)$

c) $A'(-4,1)$

d) $A'(1,-4)$

15.



If B is rotated 90 degrees counter-clockwise, where will its image be?

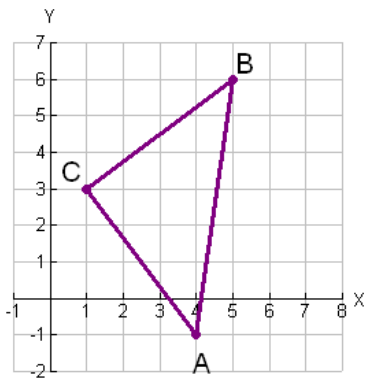
a) $B'(6,5)$

b) $B'(-6,5)$

c) $B'(-5,-6)$

d) $B'(6,-5)$

16.



If C is translated using $T(x,y): (x - 4, y + 5)$, what will its image be?

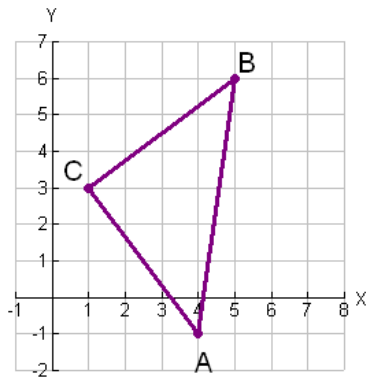
a) $C'(-3,8)$

b) $C'(1,3)$

c) $C'(-1,6)$

d) $C'(2,7)$

17.



If B is dilated with a scale factor of -2, what would its image be?

a) $B'(3,3)$

b) $B'(-10,-12)$

c) $B'(-12,-10)$

d) $B'(5,6)$