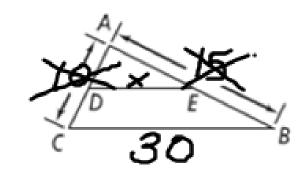
## Unit 5 Review

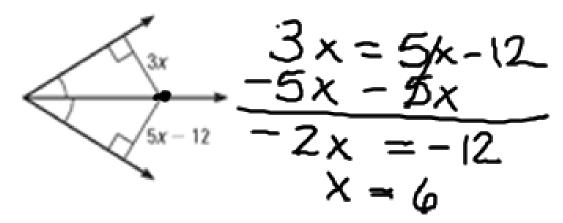
1.  $\overline{DE}$  is a midsegment of  $\Delta ABC$ .



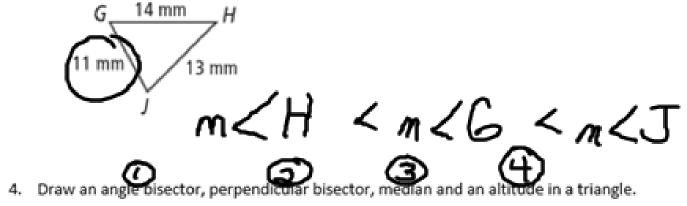
In millimeters, what is DE?

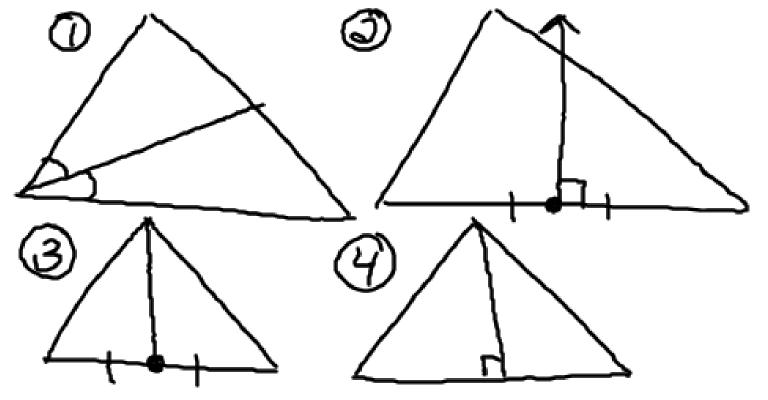


2. Find the value of x.

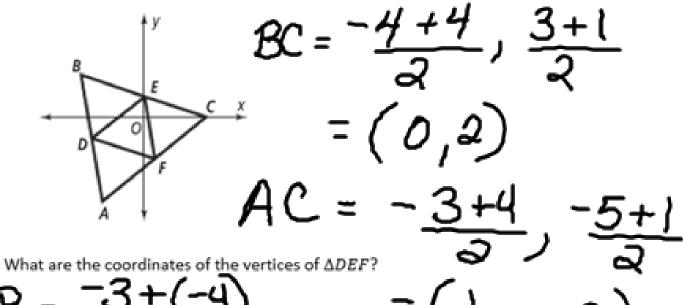


Put the angles in order from least to greatest.

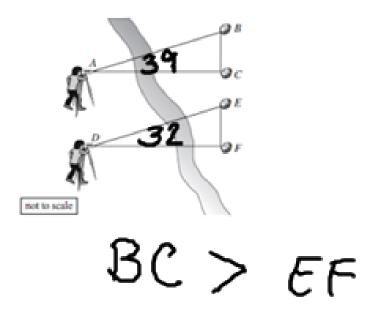




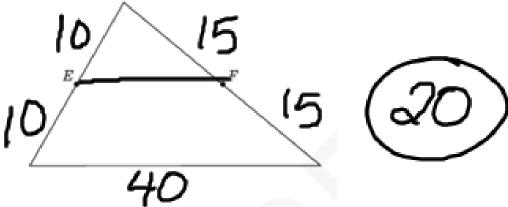
5. In the figure below, ΔABC has vertices A(-3, -5), B(-4, 3), and C(4, 1). D is the midpoint of  $\overline{AB}$ , E is the midpoint of  $\overline{BC}$ , and F is the midpoint of  $\overline{AC}$ .



A surveyor took some measurements across a river, as shown below. In the diagram, AC = DF and AB = DE.



How long is EF?



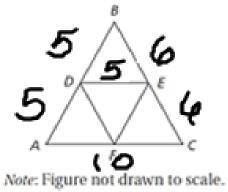
8. Rebecca is designing a backpack and needs to determine the length of the adjustable strap that connects the shoulder strap to the backpack. The height of the backpack is 20.5 inches, and the shoulder strap is 14 inches. What is the range that the adjustable strap could be?

Shoulder Strap

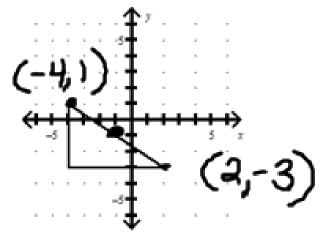
Shoulder Strap

Height 
$$20.5 + 14 = 34.5$$
 $20.5 - 14 = 4.5$ 
 $4.5 + 14 = 34.5$ 
 $4.5 + 14 = 34.5$ 

9. What is the perimeter of  $\triangle ABC$  if D is the midpoint of  $\overline{AB}$ , E is the midpoint of  $\overline{BC}$ , and F is the midpoint of  $\overline{AC}$ ?

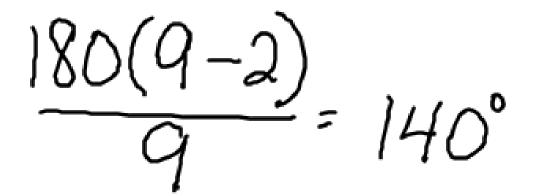


 For the triangle, find the coordinates of the point of concurrency of the perpendicular bisector of the sides.

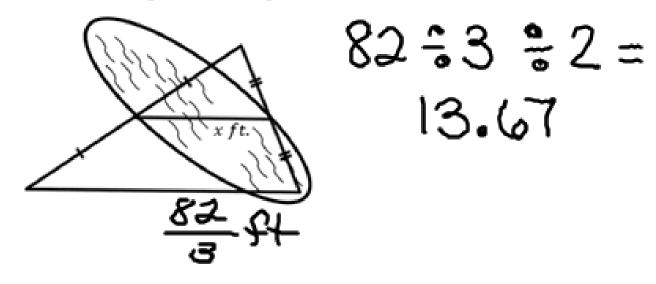


$$-\frac{4+2}{2}$$
,  $(+(-3))$ 

## 11. What is the measure of the interior angle of a honagon?



12. Determine the length of x in the figure below.



13. Determine the range of possible values of x.