1. Graph $\triangle ABC$ with coordinates A (-4, 3), B(0,-1) and C (6, 1). Justify that $\overline{EF}$ is the midsegment of
   $\triangle ABC$ where E is the midpoint of $\overline{AB}$ and F is the midpoint of $\overline{BC}$.

   A) Find the Coordinates, plot the points and draw the segment

       E _____   F _____
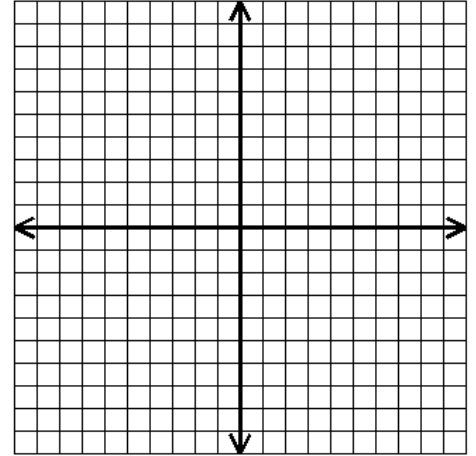
   B) Find the Slopes:

       $\overline{EF}: m =$ _____ $\overline{AC}: m =$ _____

       Therefore_____

   C) Find the lengths:

       $EF =$ _____ $AC =$ _____

       Therefore_____

Points H, E, and D are midpoints of the sides of $\triangle TUV$ and TU = 36, HE = 10 and TV = 26. Complete each statement.

2. $\overline{UV} \parallel$ _____

3. $\overline{DE} \parallel$ _____

4. $\overline{TU} \parallel$ _____

5. $\overline{TE} \cong$ _____ $\cong$ _____

6. $\overline{ED} \cong$ _____ $\cong$ _____
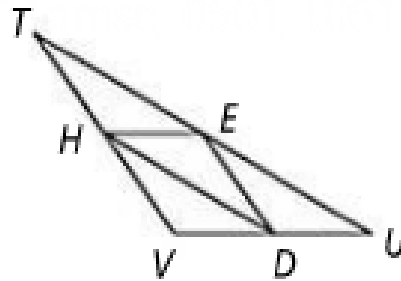
7. $\overline{DU} \cong$ _____ $\cong$ _____

8. HD = _____

9. VU = _____

10. ED = _____

11. If $m\angle UDE = 98°$, then $m\angle UVT =$ _____ because _____

12. The perimeter of $\triangle HED$ is _____.   13. The perimeter of $\triangle TUV$ is _____.

Find the value of x.

14.

14
x

15.

3x

30

16.

5x − 4

8