

Use the number line to find the coordinate of the midpoint of each segment.

5. $\frac{a+b}{2} = \frac{-6+2}{2} = \frac{-6-2}{2} = \frac{-8}{2} = -4$

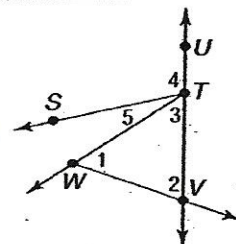
6. \overline{RT} $\frac{a+b}{2} = \frac{-2+4}{2} = \frac{-2}{2} = -1$

Find the coordinates of the midpoint of a segment having the given endpoints.

7. $W(-12, -7), T(-8, -4)$

$(\frac{x_1+x_2}{2}, \frac{y_1+y_2}{2}) = (\frac{-12+(-8)}{2}, \frac{-7+(-4)}{2}) = (\frac{-20}{2}, \frac{-11}{2}) = (-10, -\frac{11}{2})$

Use the figure at the right for problems 8 – 13.



Name the vertex of each angle.

8. $\angle 4 = T$

9. $\angle 1 = W$

Name the sides of each angle.

10. $\angle 2 = \overline{TW}$ and \overline{TV}

11. $\angle WTS = \overline{ST}$ and \overline{WT}

Write another name for each angle.

12. $\angle 3 = \angle VTW$ or $\angle WTV$

13. $\angle WTS = \angle 5$ or $\angle STW$