



For 1 and 2 find the length of each segment. Tell whether the segments are congruent.

1. \overline{AC} and \overline{BD}

2. \overline{AD} and \overline{BE}

3. Using the number line above, find the midpoint of \overline{AD} .

4. Find PD if the coordinate of P is -7 and the coordinate of D is -1.

5. Find SK if the coordinate of S is 17 and the coordinate of K is -5

6. Find the coordinate of B if $AB = 8$ and the coordinate of A is -2.

7. Find the coordinate of X if $XY = 1$ and the coordinate of Y is 0.

In the diagram of collinear points, $GK = 24$, $HJ = 10$, and $GH=HI=IJ$. Find each length.



8. HI

9. JK

10. IG

11. IK

Write the Segment Addition Postulate for the points described.

12. S is between D and P

13. J is between S and H

14. C is between Q and R

15. T is between M and N