For 1 and 2 find the length of each segment. Tell whether the segments are congruent.
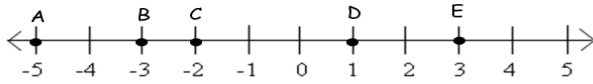
1. $\overline{AC}$ and $\overline{BD}$

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

3. Using the number line above, find the midpoint of $\overline{AD}$.
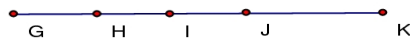
4. Find PD if the coordinate of P is -7 and the coordinate of D is -1.

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