1.2 Segments and Distance

Refer to the number line below to find each measure.
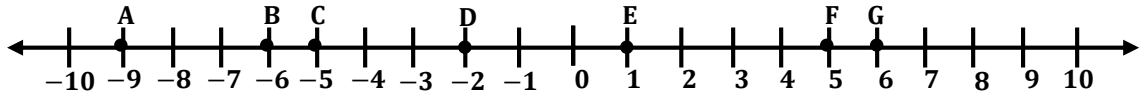
1. AE = _____	2. EC = _____
3. EG = _____	4. CA = _____

Given that R is between S and T, find each missing measure.

5. RS = 6, TR = 4.5, TS = _____	6. SR = 3, RT = 1, ST = _____
7. ST = 15, SR = 6, RT = _____	8. TS = 11.75, TR = 3.4, RS = _____

If U is between T and B, find the value of "x" and the measure of $\overline{TU}$.

9. TU = 2x, UB = 3x + 1, TB = 21

x = _____

TU = _____

10. TU = 4x − 1, UB = 2x − 1, TB = 5x

x = _____

TU = _____

11. TU = 1 − x, UB = 4x + 17, TB = −3x

x = _____

TU = _____

Find the distance between the two given points in simplest form.

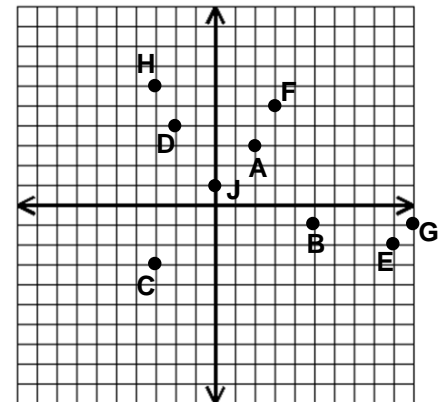12. H $(-3, 6)$ & C $(-3, -3)$

HC = _____

13. E $(9, -2)$ & G $(10, -1)$

EG = _____

Refer to the coordinate plane at the right to find each measure in simplest form.

14. GH = _____

15. FJ = _____

16. AF = _____

17. CB = _____