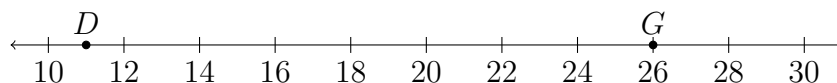


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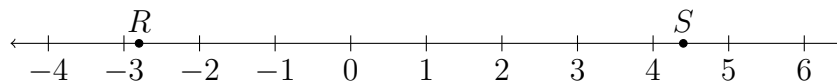
1.7 Extension Quiz: Absolute value, trisection, algebra

1. Given \overleftrightarrow{DG} as shown on the number line, with $D = 11$ and $G = 26$.



Points E and F trisect \overline{DG} . Find the values of E and F and mark and label them on the number line \overleftrightarrow{DG} .

2. Given \overleftrightarrow{RS} as shown on the number line, with $R = -2.8$ and $S = 4.4$.

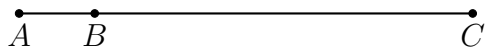


The points T and U trisect \overline{RS} . Find their values, and mark and label them on the number line.

3. Given \overline{PQR} , with $PQ = \frac{1}{2}x + 4$, $QR = x + 3$, and $PR = 2x + 5$. Find PR .
Complete all the steps for full credit.

4. Given \overline{ABC} , $AB = \frac{2}{3}$, and $AC = 3\frac{1}{3}$.

Find BC .

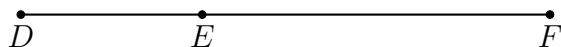


5. Given \overline{PQR} , with $PQ = 4x - 4$, $QR = 2x + 3$, and $PR = 5x + 9$. Find PR .
Complete all the steps for full credit.

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6. Given \overline{DEF} , $DF = 75$ and \overline{DE} is half the length of \overline{EF} .

Find DE .



7. Given \overleftrightarrow{PQ} as shown on the number line. Divide segment \overline{PQ} into five congruent segments by marking and labeling the points R , S , T , and U on the numberline.

