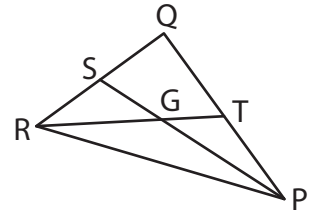
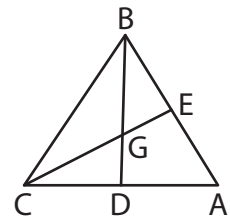


Median and Centroid

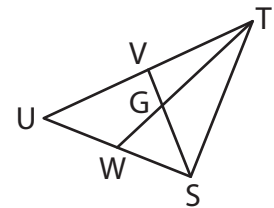
- 1) In $\triangle PQR$, $RG = (5x - 9)$ yards and $GT = (-8 + 3x)$ yards. For what value of x , \overline{PS} and \overline{RT} are medians of $\triangle PQR$?



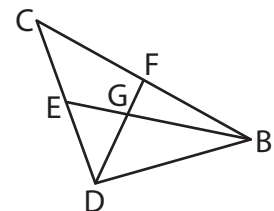
- 2) In $\triangle ABC$, \overline{BD} and \overline{CE} are medians. If $BG = (x + 3)$ inches and $BD = (4x - 18)$ inches, find the value of x .



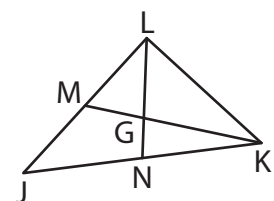
- 3) \overline{SV} and \overline{TW} are medians of $\triangle STU$ respectively. Determine the value of x if $SG = (x - 2)$ feet and $(-x - 4)$ feet



- 4) \overline{BE} and \overline{DF} are medians of $\triangle BCD$. If $EG = (x - 2)$ yards and $DF = (-3x + 6)$ yards, find the value of x .



- 5) In $\triangle JKL$, \overline{KM} and \overline{LN} are medians. If \overline{KM} and \overline{KG} measure $(10x + 1)$ feet and $(7x)$ feet respectively, find the length of \overline{GM} .



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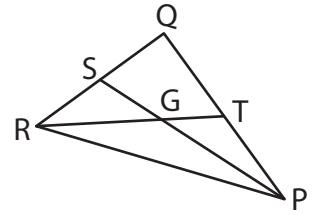
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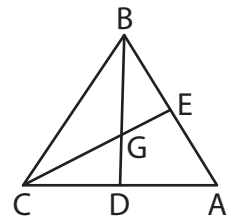
Median and Centroid

- 1) In $\triangle PQR$, $RG = (5x - 9)$ yards and $GT = (-8 + 3x)$ yards. For what value of x , \overline{PS} and \overline{RT} are medians of $\triangle PQR$?



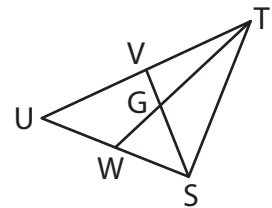
$x = 7$

- 2) In $\triangle ABC$, \overline{BD} and \overline{CE} are medians. If $BG = (x + 3)$ inches and $BD = (4x - 18)$ inches, find the value of x .



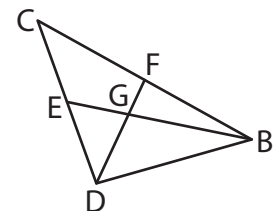
$x = 9$

- 3) \overline{SV} and \overline{TW} are medians of $\triangle STU$ and intersect at centroid G . If $SG = (x - 2)$ feet and $VG = (-x - 4)$ feet, find the length of \overline{SV} .



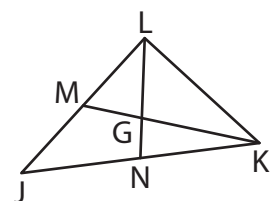
$x = -12$

- 4) In $\triangle ABC$, \overline{BE} and \overline{DF} are medians. If $EG = (x - 2)$ yards and $DF = (-3x + 6)$ yards, find the length of \overline{BE} .



$x = -8 ; DG = 20$ yards

- 5) In $\triangle JKL$, \overline{KM} and \overline{LN} are medians. If \overline{KM} and \overline{KG} measure $(10x + 1)$ feet and $(7x)$ feet respectively, find the length of \overline{GM} .



$x = 2 ; GM = 7$ feet

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