

Unit 5: Relationships Within Triangles

HW 5.1: Triangle Midsegments

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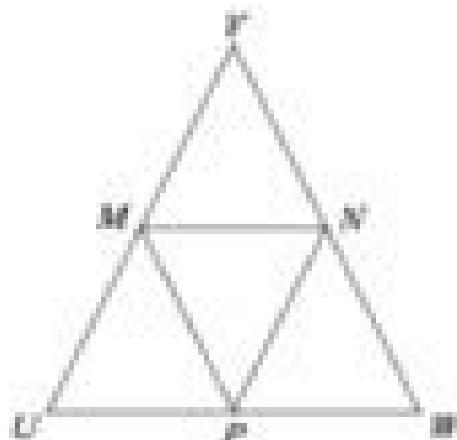
In each triangle, M, N, and P are the midpoints of the sides. Complete each statement.

1.

a) $UV \parallel \underline{NP}$

b) $VW \parallel \underline{MP}$

c) $MN \parallel \underline{UW}$

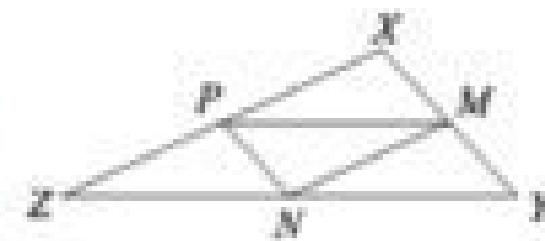


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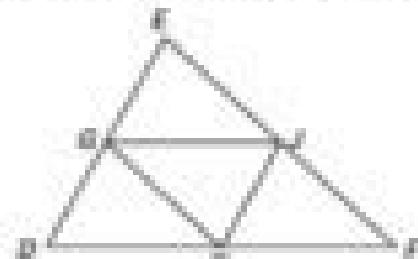
a) $XY \parallel \underline{NP}$

b) $NM \parallel \underline{XZ}$

c) $PM \parallel \underline{YZ}$



3. If G, J, and K are the midpoints of the sides of $\triangle DEF$ and $EF = 18$, $DE = 12$, $GJ = 8$, then find the indicated measures.



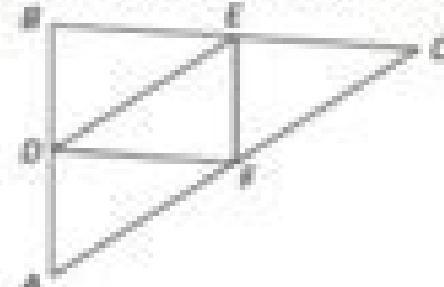
$$JK = \underline{6}$$

$$GK = \underline{9}$$

$$DF = \underline{16}$$

$$EJ = \underline{9}$$

4. If D, E, and F are the midpoints of the sides of $\triangle ABC$ and $BC = 28$, $DE = 15$, $AD = 12$, then find the indicated measures.



$$DF = \underline{14}$$

$$PC = \underline{15}$$

$$AB = \underline{24}$$

$$EF = \underline{12}$$

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Ron Larson

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web aug 31 2019 the tensile strengths and yield strengths of astm a105 asme sa 105 forgings at elevated temperatures are provided in asme boiler and pressure vessel code section ii part d these values which are tabulated in below two tables are provided for use in design calculations