

CC Geometry Sample Midterm Problems Packet 2

1 Point Q is on MN such that $MQ:QN = 2:3$. If M has coordinates $(3,5)$ and N has coordinates $(8,-5)$, the coordinates of Q are

- 1) ☒ $(5,1)$ $x = 3 + \frac{2}{5} \cdot 5 = 5$
 2) $(5,0)$
 3) $(6,-1)$ $y = 5 + \frac{2}{5} \cdot (-10) = 1$
 4) $(6,0)$

2 Line segment RW has endpoints $R(-4,5)$ and $W(6,20)$. Point P is on RW such that $RP:PW$ is $2:3$. What are the coordinates of point P ?

- 1) $(2,9)$
 2) ☒ $(0,11)$ $x = -4 + \frac{2}{5} \cdot 10 = 0$
 3) $(2,14)$ $y = 5 + \frac{2}{5} \cdot 15 = 11$
 4) $(10,2)$

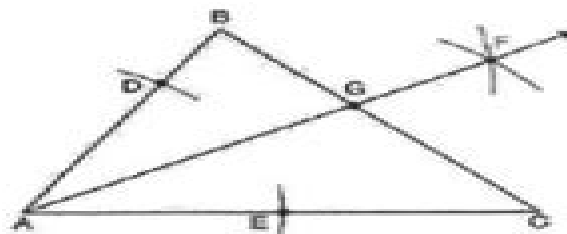
3 The diagram below shows the construction of the bisector of $\angle ABC$.



Which statement is *not* true?

- 1) $m\angle EBF = \frac{1}{2} m\angle ABC$
 2) $m\angle DBF = \frac{1}{2} m\angle ABC$
 3) ☒ $m\angle EBF = m\angle ABC$
 4) $m\angle DBF = m\angle EBF$

4 As shown in the diagram below of $\triangle ABC$, a compass is used to find points D and E , equidistant from point A . Next, the compass is used to find point F , equidistant from points D and E . Finally, a straightedge is used to draw \overrightarrow{AF} . Then, point G , the intersection of \overrightarrow{AF} and side \overline{BC} of $\triangle ABC$, is labeled.



Which statement *must* be true?

- 1) \overrightarrow{AF} bisects side \overline{BC}
 2) ☒ \overrightarrow{AF} bisects $\angle BAC$
 3) $\overrightarrow{AF} \perp \overline{BC}$
 4) $\triangle ABG \sim \triangle ACG$

Geometry Midterm Review With Answers

Sasha Hu



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