1. Given: $\overrightarrow{EF}$ is the perpendicular bisector of $\overline{IK}$. Which statement is true?

[A] $\angle IEK$ is a right angle.
[B] $FK = EK$
[C] F is the midpoint of $\overline{IK}$
[D] $FI = FK$

2. If $\overrightarrow{KF}$ is the perpendicular bisector of $\overline{GH}$, then $\angle KGF \cong$ _____.

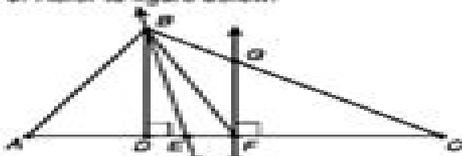3. The medians of a triangle are concurrent. Their common point is the _____.

4. A point is equidistant from points $A(0, 0)$, $B(4, 0)$, and $C(4, 4)$. Its coordinates are _____.

5. Given: $\overrightarrow{AE}$ bisects $\angle DAB$. Find ED if $CB = 6$ and $CE = 8$. (not drawn to scale)

6. Refer to figure below.

Given: $\overline{AF} \cong \overline{FC}$, $\angle ABE \cong \angle EBC$
An altitude of $\triangle ABC$ is _____.

7. For the triangle shown, VS = 5 and VQ = 6. Then PQ = _____.

8. Using the Triangle Inequality Theorem, solve for all possible values of x.

9. Two sides of a triangle have sides 4 and 15. The length of the third side must be greater than _____ and less than _____.

10. Which of these lengths could be the sides of a triangle?

[A] 7 cm, 19 cm, 12 cm
[B] 19 cm, 7 cm, 13 cm
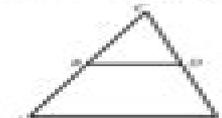[C] 12 cm, 22 cm, 8 cm
[D] 22 cm, 12 cm, 9 cm

11. Refer to the figure below.
Given: $\overline{AF} \cong \overline{FC}$, $\angle ABE \cong \angle EBC$
A median of $\triangle ABC$ is _____.

12. Solve for x given $BD = \frac{5}{2}x - 5$ and $AE = 9x + 4$.

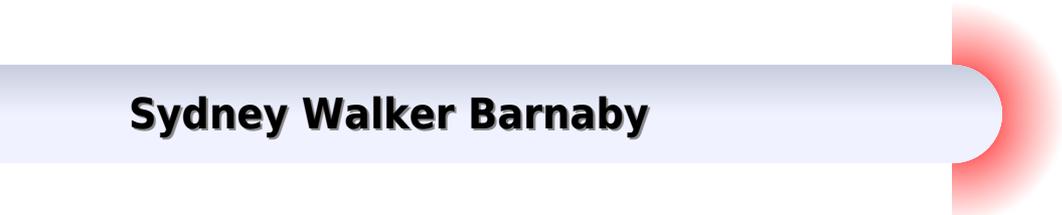Assume B is the midpoint of $\overline{AC}$ and D is the midpoint of $\overline{CE}$.

13. Find the area of the rectangle if AC = 13 and BD = 26.

Chapter 5 Geometry

Sydney Walker Barnaby

Chapter 5 Geometry:

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