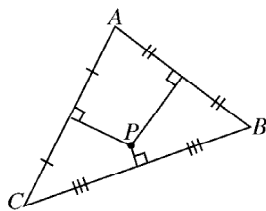


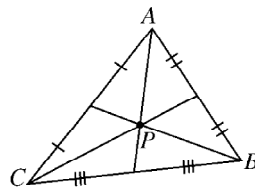
Triangle Perpendicular Bisectors

- _____ 1. Which diagram shows a point P an equal distance from points A , B , and C ?

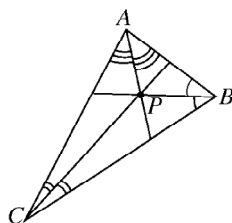
A.



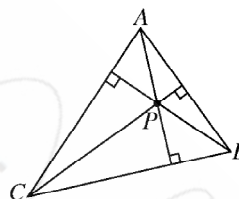
C.



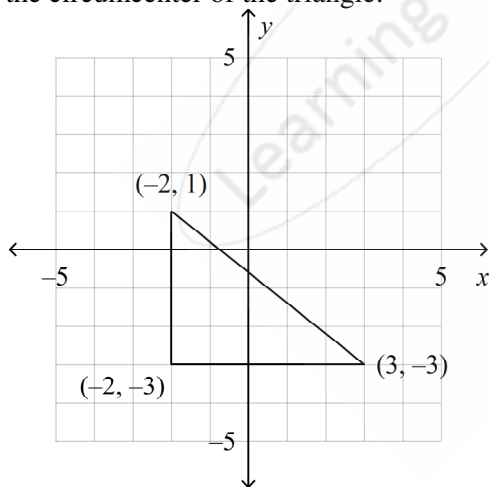
B.



D.



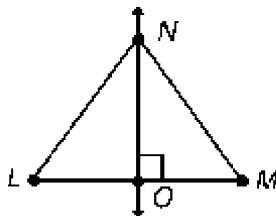
- _____ 2. Find the circumcenter of the triangle.

A. $(\frac{1}{2}, -1)$ B. $(-2, -1)$ C. $(-1, \frac{1}{2})$ D. $(\frac{1}{2}, -3)$

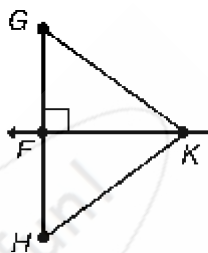
- _____ 3. Find the circumcenter of $\triangle EFG$ with $E(4, 6)$, $F(4, 2)$, and $G(6, 2)$.

A. $(5, 2)$ B. $(4, 5)$ C. $(5, 4)$ D. $(4, 5)$

4. $\overleftrightarrow{NO}$ is the perpendicular bisector of $\overline{LM}$. If $OM = 5$ and $LN = 13$, then $LO = \underline{\hspace{2cm}}$ and $MN = \underline{\hspace{2cm}}$.
Explain your solutions.



5. If $\overleftrightarrow{KF}$ is the perpendicular bisector of $\overline{GH}$, then $\angle KGF \cong \underline{\hspace{2cm}}$.

A. $\angle HFK$ B. $\angle KHF$ C. $\overline{FK}$ D. $\angle GKF$

Triangle Perpendicular Bisectors

Answer Section

1. A
2. A
3. C
4. $LO = 5$, $MN = 13$; $LO = OM$ by definition of bisector and $MN = LN$ by the Perpendicular Bisector Theorem.
5. B

