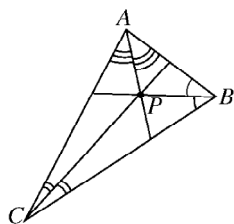


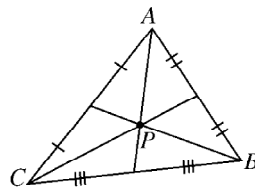
Triangle Perpendicular Bisectors

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

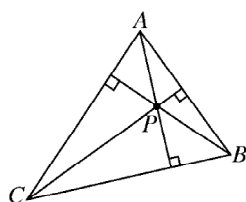
A.



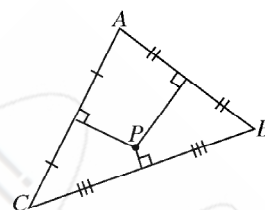
C.



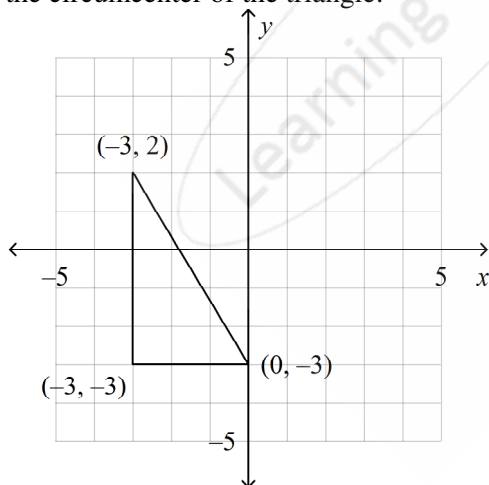
B.



D.



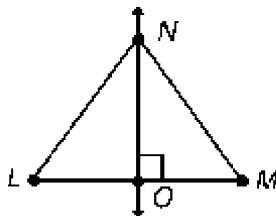
- _____ 2. Find the circumcenter of the triangle.

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

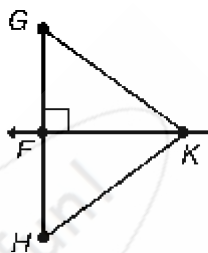
- _____ 3. Find the circumcenter of $\triangle EFG$ with $E(6, 4)$, $F(6, 2)$, and $G(10, 2)$.

A. $(3, 8)$ B. $(4, 2)$ C. $(8, 3)$ D. $(6, 4)$

4. $\overleftrightarrow{NO}$ is the perpendicular bisector of $\overline{LM}$. If $OM = 7$ and $LN = 12$, then $LO =$ _____ and $MN =$ _____.
Explain your solutions.



- ____ 5. If $\overleftrightarrow{KF}$ is the perpendicular bisector of $\overline{HG}$, then $\angle FGK \cong$ _____.



- A. $\angle KHF$ B. $\overline{KF}$ C. $\angle FKG$ D. $\angle KFH$

Triangle Perpendicular Bisectors

Answer Section

1. D
2. C
3. C
4. $LO = 7$, $MN = 12$; $LO = OM$ by definition of bisector and $MN = LN$ by the Perpendicular Bisector Theorem.
5. A

