Name: $\qquad$ Date: $\qquad$ Period: $\qquad$

## ALTITUDES 8 ORTHOCENTER



In each triangle shown, construct the altitude from $\mathbf{A}$.
1)

2)

3)

4)
M


## Construct the orthocenter of each triangle shown.

5) 


7)

8. $P$ is the orthocenter of $\triangle A B C . A F=4 \mathrm{~cm}, C F=3 \mathrm{~cm}$ Find $A C$.

9. $P$ is the orthocenter of $\triangle A B C$.
$B D=12 \mathrm{ft}$.
$B C=13 \mathrm{ft}$.
Find DC.

10. P is the orthocenter of $\triangle \mathrm{ABC}$.
$C P=25 \mathrm{~cm}$
$\mathrm{PF}=7 \mathrm{~cm}$
Find CF.

12. $P$ is the point of concurrency for the altitudes of $\triangle A B C$. $A D=12$ in. $D P=16$ in. Find $A P$.

11. $P$ is the point of concurrency for the altitudes of $\triangle A B C$.
$B P=61 \mathrm{~mm}, \mathrm{PF}=11 \mathrm{~mm}$.
Find $B F$.

13. $P$ is the point of concurrency for the altitudes of $\triangle A B C$. $A F=48$ meters, $A C=50$ meters. Find CF.


