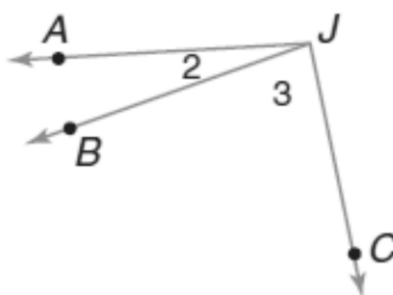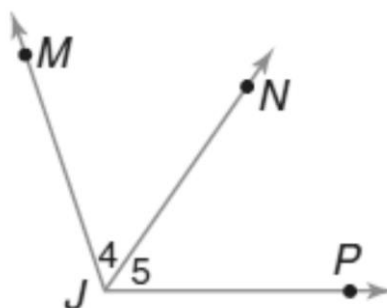**Name:** _____

# Measuring and Constructing Angles

A)    Name all angles having J as their vertex.
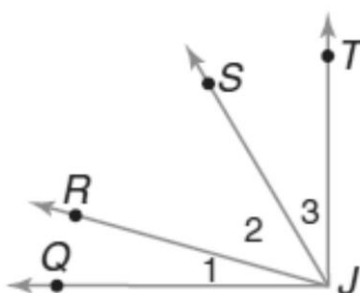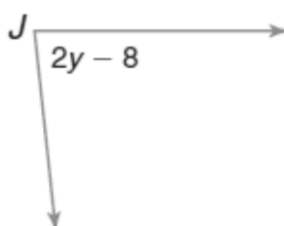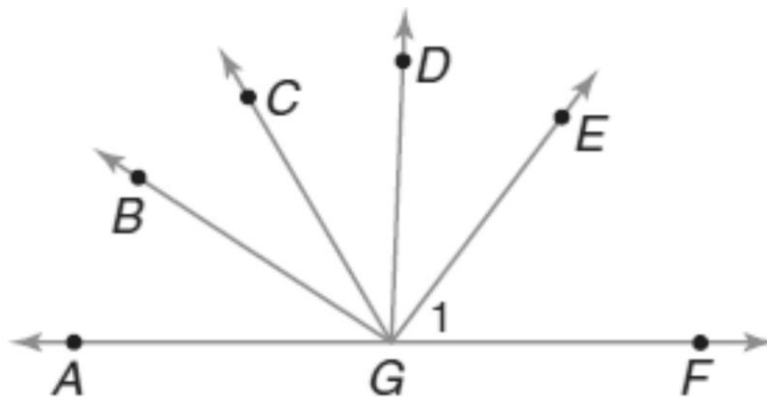
1)



2)



3)



B)    The measure of ∠ J is 84.



$2y - 8$

4)  Solve for y.

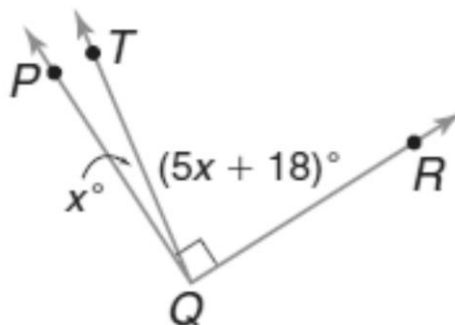C) Refer to the figure to answer the following questions



5) If $m\angle AGB = 40$ and $m\angle BGC = 24$, find $m\angle AGC$.

6) If $m\angle BGD = 52$ and $m\angle BGC = 24$, find $m\angle CGD$.

7) If GE bisects $\angle CGF$ and $m\angle CGF = 116$, find $m\angle 1$.

D) If $m\angle PQT = x$, $m\angle TQR = 5x + 18$, and $m\angle PQR = 90$, Find:



8) Value of x

9) $m\angle PQT$

10) $m\angle TQR$