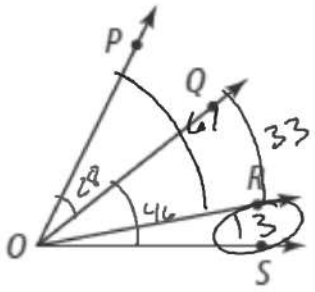
26. If $m\angle POQ = 24$ and $m\angle POR = 59$, what is $m\angle QOR$?

27. If $m\angle POQ = 19$, $m\angle QOR = 31$, and $m\angle ROS = 15$, what is $m\angle POS$?

28. If $m\angle QOS = 46$, $m\angle POR = 61$, and $m\angle POQ = 28$, what is $m\angle ROS$?



$m\angle POQ + m\angle QOR = m\angle POR$

$24 + x = 59$

$x = 35^\circ$

28) $m\angle POQ + m\angle QOR = m\angle POR$

$28 + x = 61$

$x = 33$

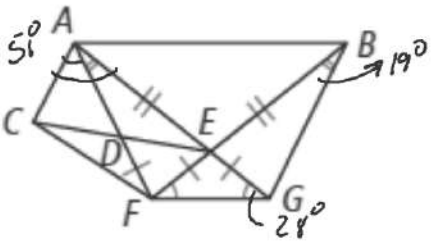
$m\angle QOR + m\angle ROS = m\angle QOS$

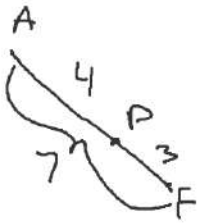
$33 + x = 46$

$x = 13$

Suppose $EG = 3$, $EB = 8$, $AF = 7$, $m\angle EBG = 19$, $m\angle EGF = 28$, and $m\angle CAE = 51$. Find each value.

SEE EXAMPLE 6





$AF = 7$

$DF = 3$

29. $EF = 3$ **30.** $AG = 11$ **31.** $AD = 4$

32. $m\angle EFG = 28^\circ$ **33.** $m\angle CAF = 32$ **34.** $DF = 3$

$m\angle CAF + m\angle FAG = m\angle CAG$

$x + 19 = 51$