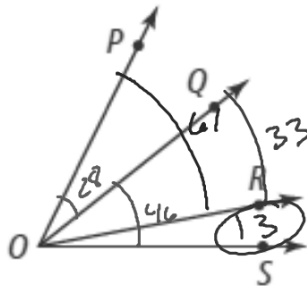**26.** If $m\angle POQ = 24$ and
$m\angle POR = 59$,
what is $m\angle QOR$?

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 $m\angle ROS$?

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

$24 + X = 59$
$X = 35°$

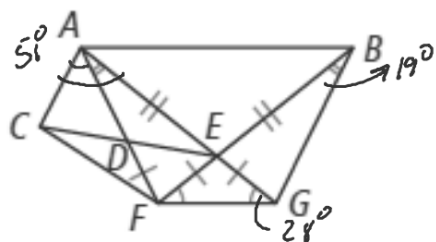$28)\ m\angle POQ + \underline{m\angle QOR} = m\angle POR$
$28 + X = 61$
$X = 33$

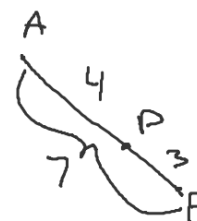$m\angle QOR + m\angle ROS = m\angle QOS$
$33 + X = 46$
$X = 13$

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

$51°$ A   B $19°$
C   E
D
F   G $28°$

AF = 7
DF = 3

A
4
7   P 3
F

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

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

$$m\angle CAF + m\angle FAG = m\angle CAG$$
$$x + 19 = 51$$