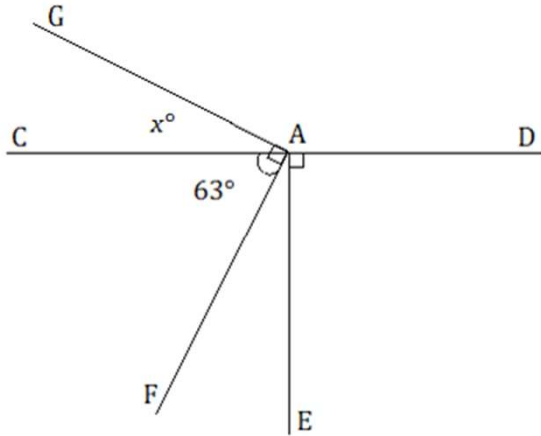
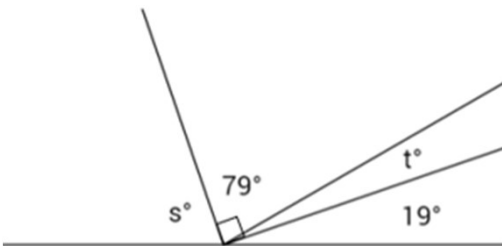


Angle Problems Worksheets (Lines meeting at a Point)

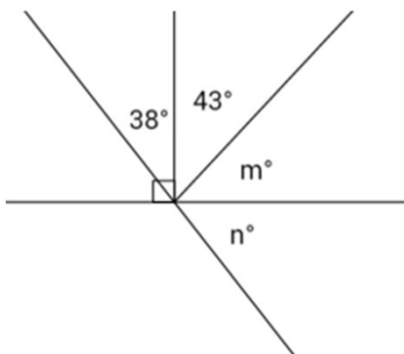
1. Set up and solve an equation for the value of x . Use the value of x and a relevant angle relationship in the diagram to determine the measurement of $\angle EAF$.



2. Set up and solve the appropriate equations for s and t .

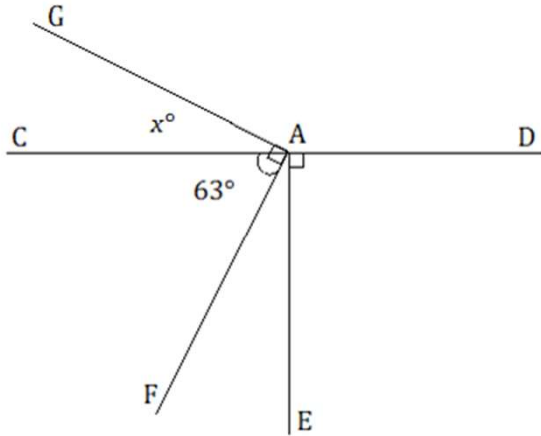


3. Two lines meet at a point that is also the endpoint of two rays. Set up and solve the appropriate equations for m and n .



Angle Problems Worksheets (Lines meeting at a Point)

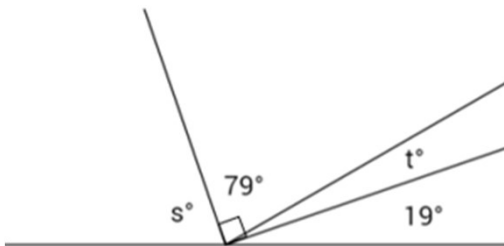
1. Set up and solve an equation for the value of x . Use the value of x and a relevant angle relationship in the diagram to determine the measurement of $\angle EAF$.



$$\begin{aligned}x + 63 &= 90 \\x + 63 - 63 &= 90 - 63 \\x &= 27\end{aligned}$$

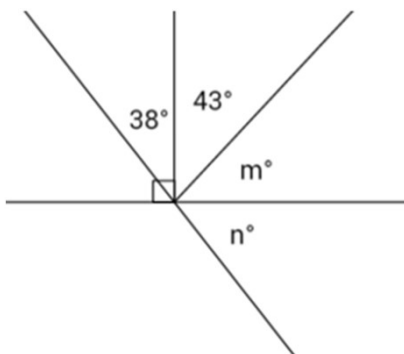
$\angle CAG$ and $\angle EAF$ are the complements of 63° .
The measurement of $\angle CAG$ is 27° ; therefore,
the measurement of $\angle EAF$ is also 27° .

2. Set up and solve the appropriate equations for s and t .



$$\begin{aligned}79 + t &= 90 \\79 - 79 + t &= 90 - 79 \\t &= 11 \\9 + (11) + 79 + s &= 180 \\109 + s &= 180 \\109 - 109 + s &= 180 - 109 \\s &= 71\end{aligned}$$

3. Two lines meet at a point that is also the endpoint of two rays. Set up and solve the appropriate equations for m and n .



$$\begin{aligned}43 + m &= 90 \\43 - 43 + m &= 90 - 43 \\m &= 47 \\38 + 43 + (47) + n &= 180 \\128 + n &= 180 \\128 - 128 + n &= 180 - 128 \\n &= 52\end{aligned}$$