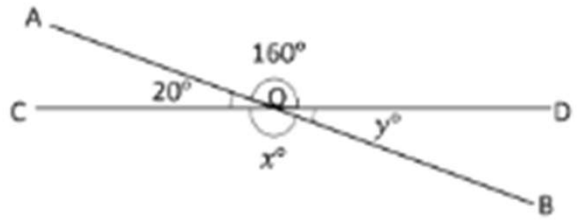
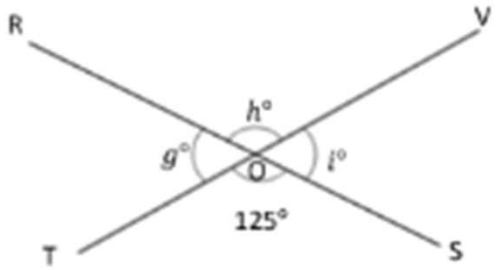
Geometry Worksheets
(Adjacent Angles)

Write an equation, and solve for the measure of ∠x.

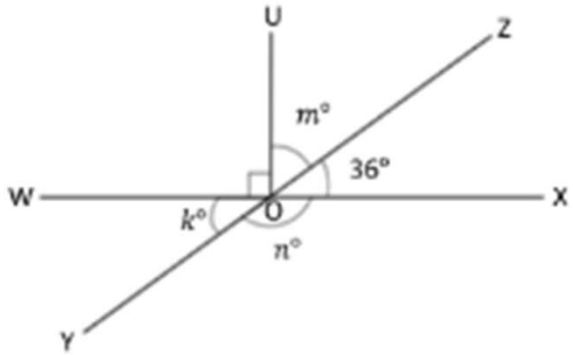
5. O is the intersection of $\overline{AB}$ and $\overline{CD}$. $x° =$ _____ $y° =$ _____
$\angle DOA$ is 160°, and $\angle AOC$ is 20°.



6. O is the intersection of $\overline{RS}$ and $\overline{TV}$. $g° =$ _____ $h° =$ _____ $i° =$ _____
$\angle TOS$ is 125°.



7. O is the intersection of $\overline{WX}$, $\overline{YZ}$, and $\overline{UO}$. $k° =$ _____ $m° =$ _____ $n° =$ _____
$\angle XOZ$ is 36°.



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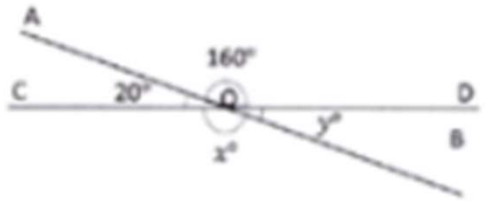


$x° = 160°$ $y° = 20°$

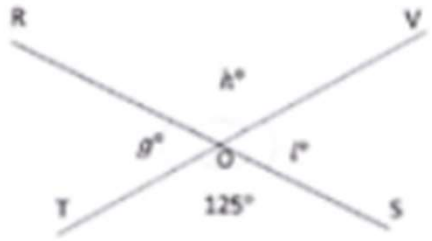
$180° - 160° = y°$

$y° = 20°$

$20° + x° = 180°$

$x° = 160°$

6. O is the intersection of $\overline{RS}$ and $\overline{TV}$. $\angle TOS$ is 125°.



$g° = 55°$ $h° = 125°$ $i° = 55°$

$180° - 125° = i°$

$i° = 55°$

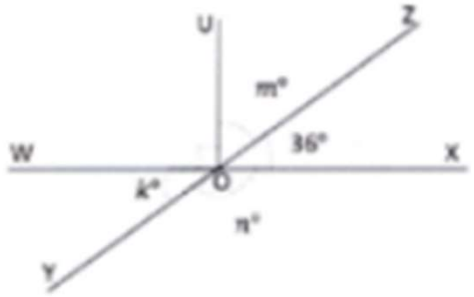
$55° + h° = 180°$

$h° = 125°$

$125° + g° = 180°$

$g° = 55°$

7. O is the intersection of $\overline{WX}$, $\overline{YZ}$, and $\overline{UO}$. $\angle XOZ$ is 36°.



$k° = 36°$ $m° = 54°$ $n° = 144°$

$90° + m° + 36° = 180°$

$m° = 54°$

$54° + 90° + k° = 180°$

$k° = 36°$

$36° + n° = 180°$

$n° = 144°$