Name _____   Date _____

Write an equation, and solve for the unknown angle measurements numerically.

1.
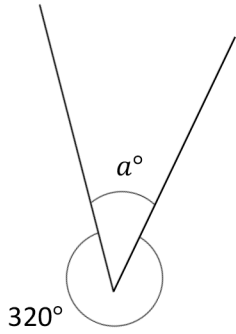
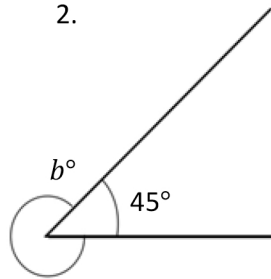$a°$

320°

_____° + 320° = 360°

$a° =$ _____°

2.

$b°$

45°

_____° + _____° = 360°

$b° =$ _____°

3.

$c°$

115°

100°

_____° + _____° + _____° = _____°

$c° =$ _____°

4.

135°

$d°$

145°

_____° + _____° + _____° = _____°

$d° =$ _____°
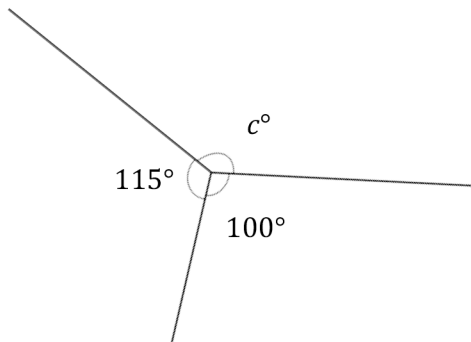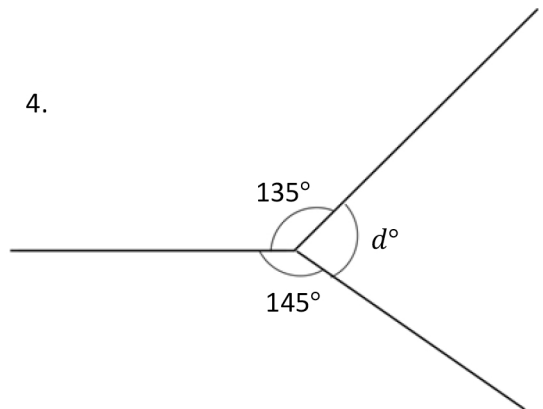
Write an equation and solve for the unknown angles numerically.

5. O is the intersection of $\overline{AB}$ and $\overline{CD}$. $\qquad$ $e° =$ _____ $f° =$ _____
    $\angle COB$ is 145° and $\angle AOC$ is 35°.

A

$e°$

35°

C ———— O ———— D

$f°$

145°

B
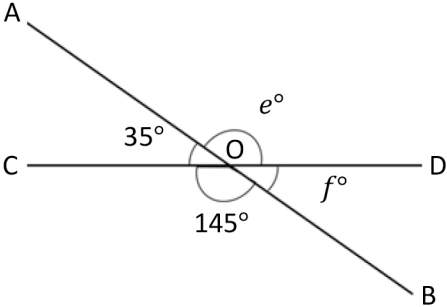
6. O is the intersection of $\overline{QR}$ and $\overline{ST}$. $\qquad$ $g° =$ _____ $h° =$ _____ $i° =$ _____
    $\angle QOS$ is 55°.

Q   T

$h°$

55° $i°$

O

$g°$

S   R
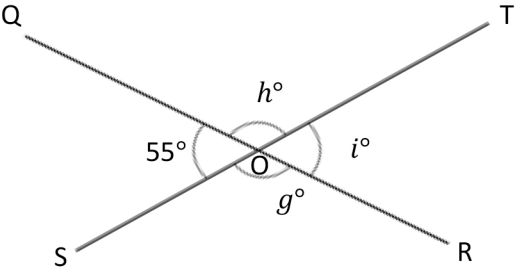
7. O is the intersection of $\overline{UV}$, $\overline{WX}$, and $\overline{YO}$. $\qquad$ $j° =$ _____ $k° =$ _____ $m° =$ _____
    $\angle VOX$ is 46°.

X

$m°$ 46°

U ———— O ———— V

$k°$

$j°$

Y

W
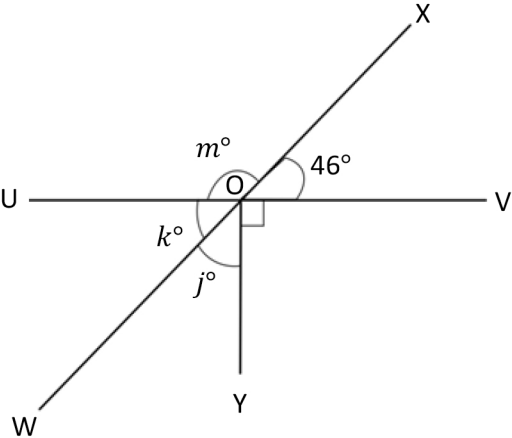
Answer Key

1. 40; 40

2. 45, 315; 315

3. 115, 100, 145, 360; 145

4. 135°, 145°, 80°, 360°; 80°

5. Equations will vary; 145°; 35°

6. Equations will vary; 125°; °125°; 55°

7. Equations will vary; 44°; 46°; 134°