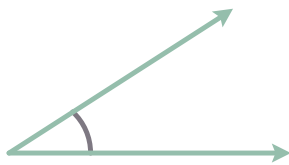
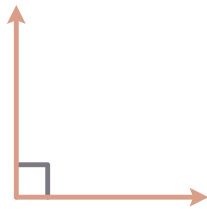
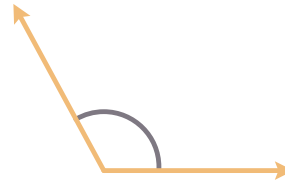
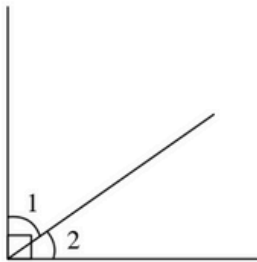
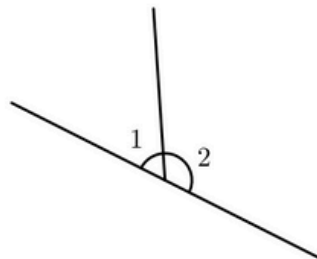


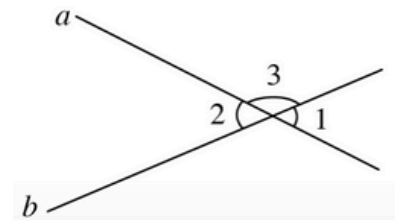
Angle

**ACUTE ANGLE**Less than 90° **RIGHT ANGLE**Exact 90° **OBTUSE ANGLE**Greater than 90°
but less than 180° **STRAIGHT ANGLE**Exact 180° 

$$m\angle 1 + m\angle 2 = 90^\circ$$



$$m\angle 1 + m\angle 2 = 180^\circ$$



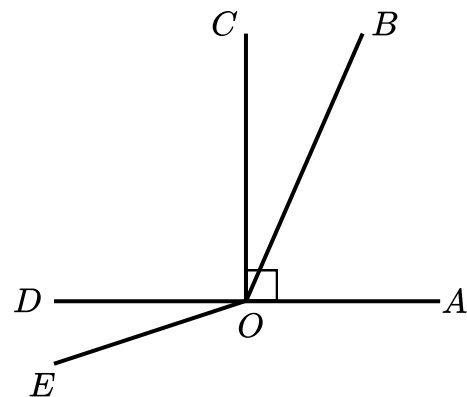
$$\begin{aligned} m\angle 1 + m\angle 3 &= 180^\circ \\ m\angle 2 + m\angle 3 &= 180^\circ \\ m\angle 1 &= m\angle 2 \end{aligned}$$

★ What type of angle is formed by the hour hand and the minute hand in the picture below? **C**

- A. Acute angle.
- B. Right angle.
- C. Obtuse angle.
- D. Straight angle.



★ In the figure below, there are 3 acute angles, 2 right angles, and 4 obtuse angles.



Acute angles: $\angle AOB$, $\angle BOC$, $\angle DOE$

Right angles: $\angle AOC$, $\angle COD$

Obtuse angles: $\angle AOE$, $\angle BOD$, $\angle BOE$, $\angle COE$

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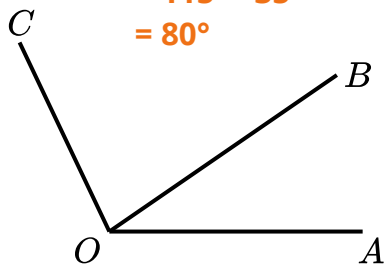


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Angle

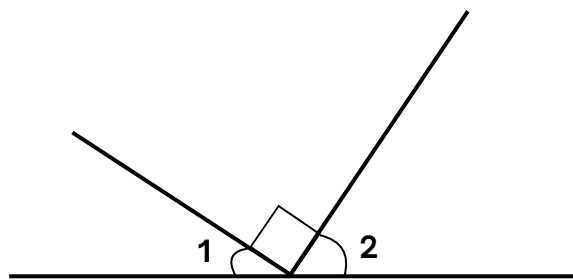
- ★ In the figure below, $m\angle AOC = 115^\circ$,
 $m\angle AOB = 35^\circ$. $m\angle BOC = \underline{80}^\circ$.

$$\begin{aligned} m\angle BOC &= m\angle AOC - m\angle AOB \\ &= 115^\circ - 35^\circ \\ &= 80^\circ \end{aligned}$$



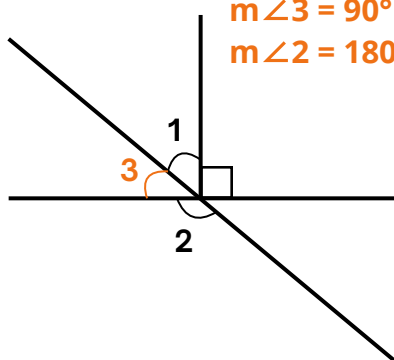
- ★ In the figure below, $m\angle 1 = 33^\circ$.
 $m\angle 2 = \underline{57}^\circ$.

$$m\angle 2 = 180^\circ - 90^\circ - m\angle 1 = 90^\circ - 33^\circ = 57^\circ$$



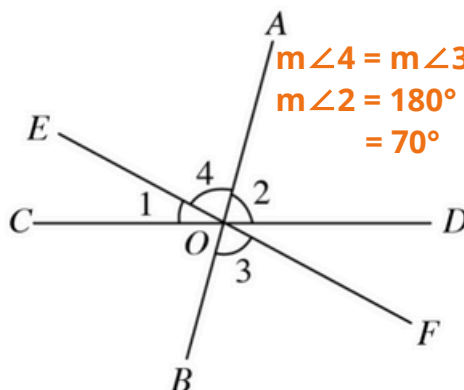
- ★ In the figure below, $m\angle 1 = 50^\circ$.
 $m\angle 2 = \underline{140}^\circ$.

$$\begin{aligned} m\angle 3 &= 90^\circ - m\angle 1 = 40^\circ \\ m\angle 2 &= 180^\circ - m\angle 3 = 140^\circ \end{aligned}$$



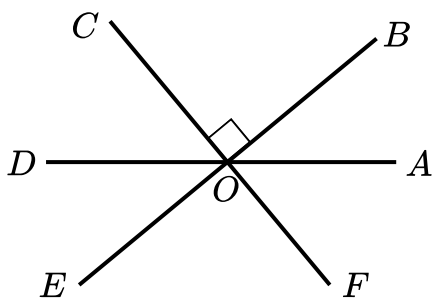
- ★ In the figure below, $m\angle 1 = 30^\circ$,
 $m\angle 3 = 80^\circ$. $m\angle 2 = \underline{70}^\circ$.

$$\begin{aligned} m\angle 4 &= m\angle 3 = 80^\circ \\ m\angle 2 &= 180^\circ - m\angle 1 - m\angle 4 \\ &= 70^\circ \end{aligned}$$

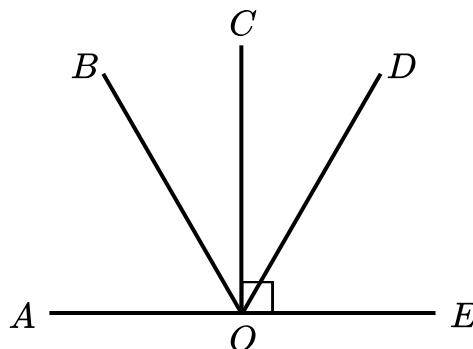


- ★ In the figure below, $m\angle DOF = 130^\circ$.
 $m\angle AOB = \underline{40}^\circ$.

$$\begin{aligned} m\angle AOF &= 180^\circ - m\angle DOF = 50^\circ \\ m\angle AOB &= 90^\circ - m\angle AOF = 40^\circ \end{aligned}$$

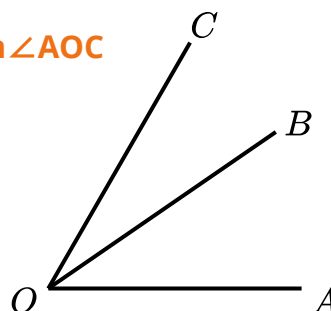


- ★ In the figure below, $m\angle AOB = m\angle BOD = m\angle DOE$. $m\angle BOC = \underline{30}^\circ$.
 $m\angle AOB = 180^\circ \div 3 = 60^\circ$, $m\angle AOC = 90^\circ$
 $m\angle BOC = 90^\circ - m\angle AOB = 30^\circ$



- ★ The sum of all acute angles in the figure is 120° . $m\angle AOC = \underline{60}^\circ$.

$$\begin{aligned} (m\angle AOB + m\angle BOC) + m\angle AOC &= 2m\angle AOC \\ 2m\angle AOC &= 120^\circ \\ m\angle AOC &= 60^\circ \end{aligned}$$



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