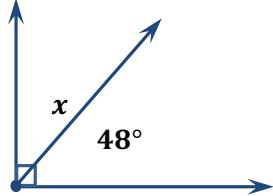


Measuring Angles

Exit Quiz

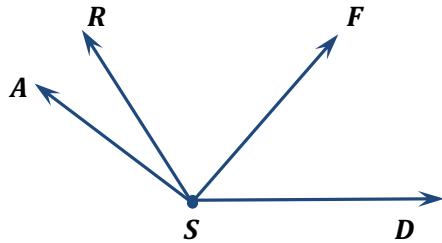
Multiple choices

1. Find the value of x in the figure below.



- a. 42°
 b. 132°
 c. 32°
 d. 90°

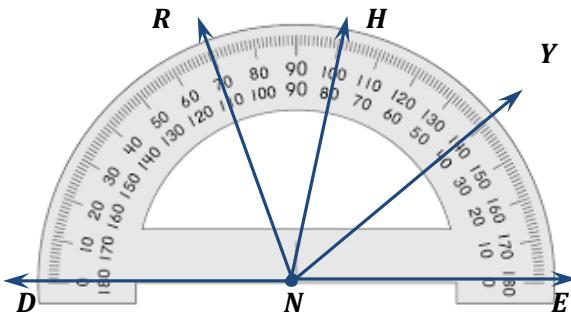
2. Which of the following statements is true?



- a. $\angle DSA$ and $\angle DSF$ are obtuse angles
 b. $\angle DSF$ and $\angle RSA$ are acute angles
 c. $\angle FSA$ and $\angle DSR$ are obtuse angles
 d. $\angle RSA$ and $\angle DSR$ are acute angles

3. Find the measure of each angle.

$$m\angle ENH, m\angle YNH, m\angle HNR = ?$$

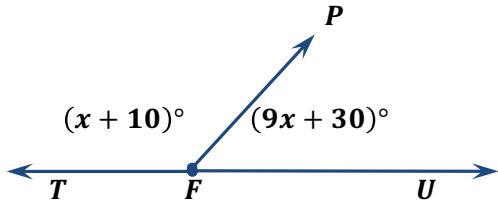


Measuring Angles

Exit Quiz

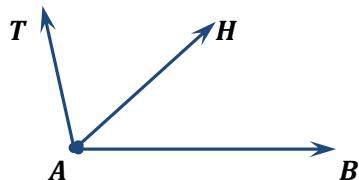
4. Find the value of x and then the indicated angle measures.

If $m\angle UFP = 9x + 30$, $m\angle PFT = x + 10$,
what are $m\angle UFP$ and $m\angle PFT$?



5. Find the indicated angle measures.

If \overrightarrow{AN} bisects $\angle BAT$ and $m\angle BAT = 126$, find
 $m\angle BAH$ and $m\angle BAH$.



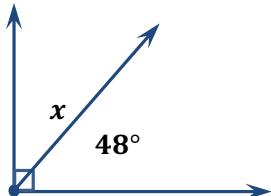
Measuring Angles

Exit Quiz

ANSWERS

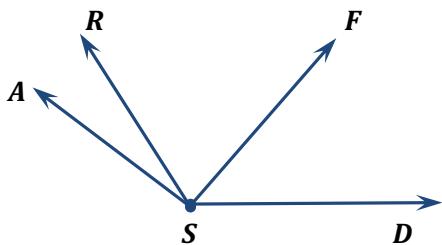
Multiple choices

1. Find the value of x in the figure below.



- a. 42°
 b. 132°
 c. 32°
 d. 90°

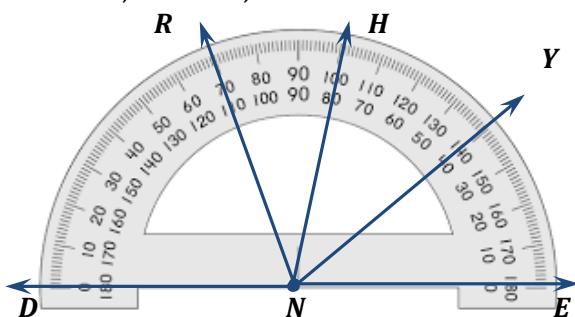
2. Which of the following statements is true?



- a. $\angle DSA$ and $\angle DSF$ are obtuse angles
 b. $\angle DSF$ and $\angle RSA$ are acute angles
 c. $\angle FSA$ and $\angle DSR$ are obtuse angles
 d. $\angle RSA$ and $\angle DSR$ are acute angles

3. Find the measure of each angle.

$$m\angle ENH, m\angle YNH, m\angle HNR = ?$$



$$m\angle ENH = 100$$

Obtuse angle

$$m\angle YNH = |140 - 100| = 40$$

Acute angle

$$m\angle HNR = |100 - 70| = 30$$

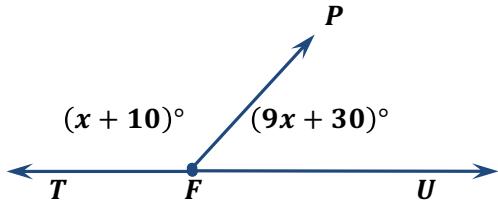
Acute angle

Measuring Angles

Exit Quiz

4. Find the value of x and then the indicated angle measures.

If $m\angle UFP = 9x + 30$, $m\angle PFT = x + 10$,
what are $m\angle UFP$ and $m\angle PFT$?



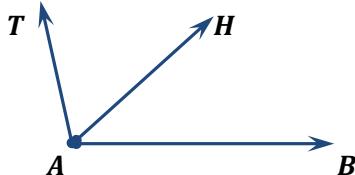
$$\begin{aligned} m\angle UFP &= 9x + 30, \\ m\angle PFT &= x + 10 \\ m\angle UFP &=? \quad m\angle PFT = ? \end{aligned}$$

$$\begin{aligned} m\angle UFT &= m\angle UFP + m\angle PFT \\ 180 &= 9x + 30 + x + 10 \\ 180 &= 10x + 40 \\ 180 - 40 &= 10x + 40 - 40 \\ 140 &= 10x \\ x &= 14 \end{aligned}$$

$$\begin{aligned} m\angle UFP &= 9x + 30 & m\angle PFT &= x + 10 \\ m\angle UFP &= 9 * 14 + 30 & m\angle PFT &= 14 + 10 \\ m\angle UFP &= 126 + 30 & m\angle PFT &= 24 \\ m\angle UFP &= 156 \end{aligned}$$

5. Find the indicated angle measures.

If \overrightarrow{AN} bisects $\angle BAT$ and $m\angle BAT = 126$, find $m\angle BAH$ and $m\angle HAT$.



$$\begin{aligned} m\angle BAT &= 126 \\ m\angle BAH &=? \quad m\angle HAT = ? \end{aligned}$$

$$\begin{aligned} m\angle BAT &= m\angle BAH + m\angle HAT \\ m\angle BAH &= m\angle HAT \\ m\angle BAT &= 2 * m\angle BAH \\ m\angle BAH &= \frac{m\angle BAT}{2} \\ m\angle BAH &= \frac{126}{2} \\ m\angle BAH &= 63 \\ m\angle HAT &= m\angle BAH \\ m\angle HAT &= 63 \end{aligned}$$