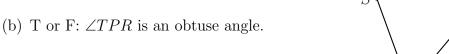
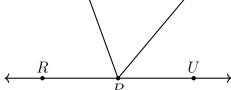
6 October 2022

2.6 PreTest: Angle measures

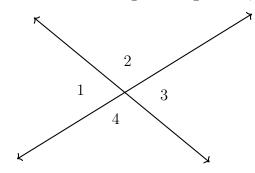
- 1. Given the situation in the diagram, answer each question. Circle True or False.
 - (a) T or F: \overrightarrow{PR} and \overrightarrow{PU} are opposite rays.



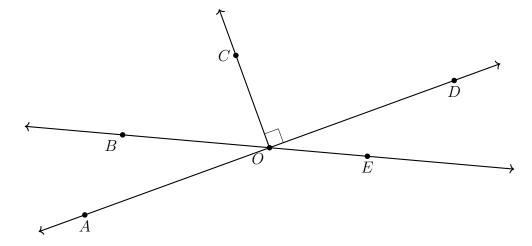
(c) T or F: $\angle RPS$ and $\angle TPU$ are adjacent angles.



2. As shown below, two lines intersect making four angles: $\angle 1$, $\angle 2$, $\angle 3$, and $\angle 4$.

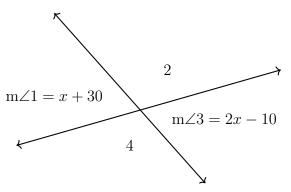


- (a) Given that $m\angle 1 = 75^{\circ}$, find $m\angle 2 = 10^{\circ}$
- (b) Find $m \angle 3 = \bot$
- (c) True or false, $\angle 1$ and $\angle 4$ are supplementary angles.
- (a) Given, the diagram below. Name a right angle:
 - (b) Name the angle that is opposite to $\angle AOB$:
 - (c) Name an angle that is supplementary to $\angle COB$:

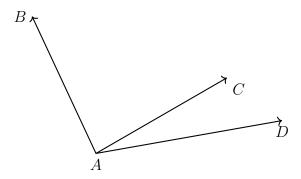


For full credit on these three problems, start with an equation and check your solution.

4. As shown below, two lines intersect making four angles: $\angle 1$, $\angle 2$, $\angle 3$, and $\angle 4$. Given that $m\angle 1=x+30$ and $m\angle 3=2x-10$, find $m\angle 1$.

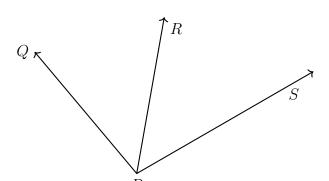


5. Given $m \angle BAC = 5x - 5$ and $m \angle DAC = x$, $m \angle BAD = 115^{\circ}$. Find $m \angle BAC$.



6. An angle bisector is shown below, with \overrightarrow{PR} bisecting $\angle QPS$. Given $m\angle QPR = 4x + 2$ and $m\angle QPS = 10x - 20$, find $m\angle QPS$.

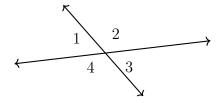
Name:



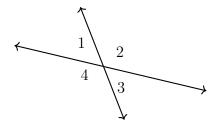
Do Not Solve!

Model the situation with an equation. Circle where it states what to find.

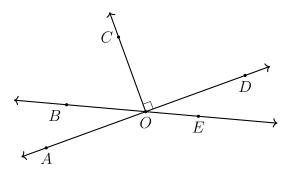
7. Two lines intersect making four angles: $\angle 1$, $\angle 2$, $\angle 3$, and $\angle 4$. Given that $m\angle 1=4x+30$ and $m\angle 2=8x-10$, find x.



8. Given that $m\angle 2 = 5x + 30$ and $m\angle 4 = 7x - 10$ as shown in the diagram, find $m\angle 2$.



9. In the diagram below $\angle AOB = 30^{\circ}$ and $\angle COB = 5x + 10$. Find x.



10. In the diagram below $\angle DOE = 60^{\circ}$ and $\angle DOB = 13x - 10$. Find x.

