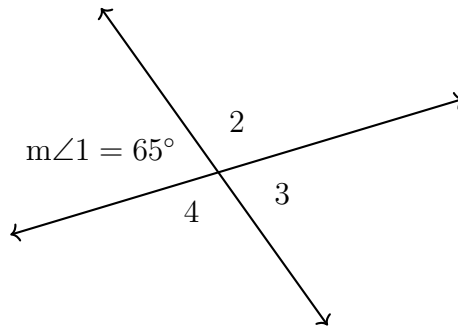


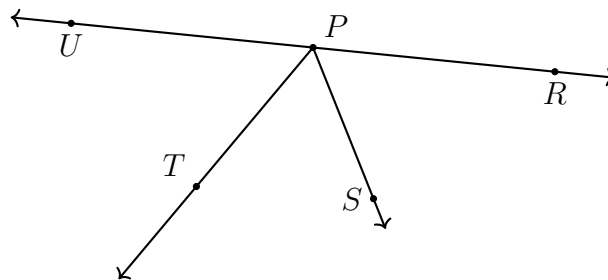
Name: _____

2.3 Homework: Vertical angles

1. Two lines intersect with $m\angle 1 = 65^\circ$. Find the measures of $\angle 2$, $\angle 3$, and $\angle 4$, marking them on the diagram.



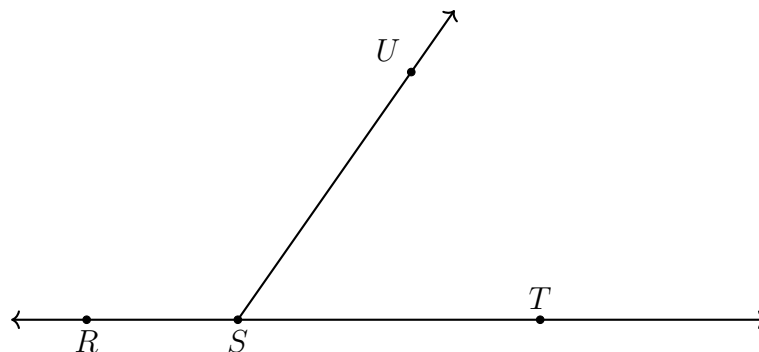
2. Given the situation in the diagram, answer each question. Circle True or False.



- (a) True or False: \overrightarrow{RP} and \overrightarrow{UP} are opposite rays.
 (b) True or False: $\angle TPR$ is supplementary to $\angle TPU$.
 (c) True or False: $\angle RPS$ and $\angle TPS$ are complementary angles.
 (d) True or False: $\angle RPS$ and $\angle TPU$ are vertical angles.
3. Find the measure of the angle in degrees and the given segment's length in centimeters.

- (a) $m\angle UST =$ _____ (b) $SU =$ _____

- (c) Name a pair of opposite rays: _____

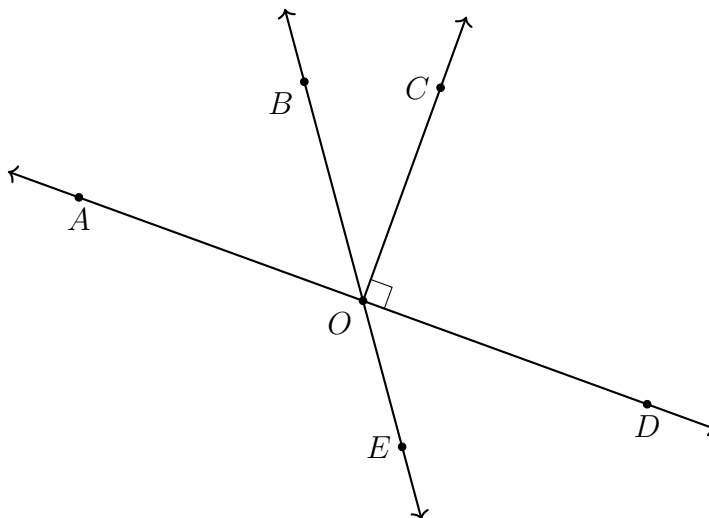


4. Given the diagram below.

(a) Name an angle that is vertical to $\angle DOE$: _____

(b) Name the ray that is opposite to \overrightarrow{OB} : _____

(c) Name an angle that is complementary to $\angle AOB$: _____

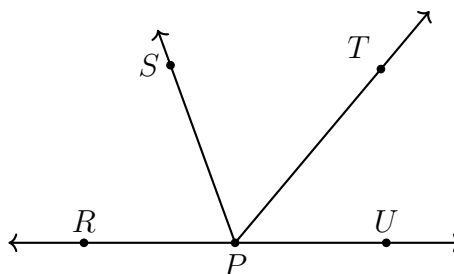


5. Given the situation in the diagram, answer each question. Circle True or False.

(a) T or F: \overrightarrow{PU} and \overrightarrow{PT} are opposite rays.

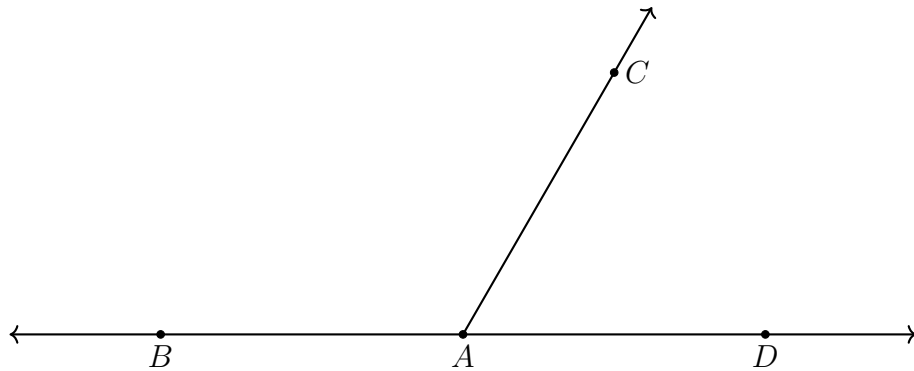
(b) T or F: $\angle RPT$ and $\angle SPU$ are adjacent angles.

(c) T or F: $\angle TPU$ is an acute angle.



Name:

6. Given a straight line and a ray, making two angles.
- (a) Write down the names of the two angles using proper notation.
 - (b) Using a protractor, measure the two angle in degrees.
 - (c) Do they sum to 180° ?



7. Write down the name of the *three* angles shown in the diagram below and their angle measures, using your protractor.

