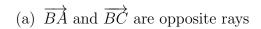
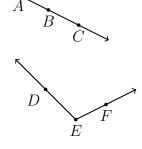
2.6 Classwork Angle terminology

1. Definition: Opposite rays are collinear rays with a common end point.

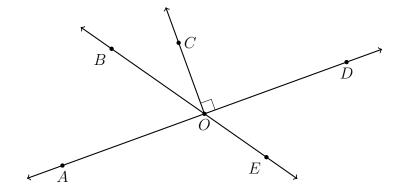




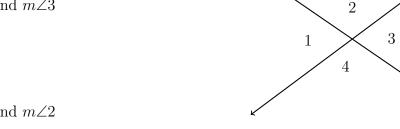
(b) These rays do not make a straight line.

(c) The rays \overrightarrow{GH} and \overrightarrow{HG} do not share a common end point.

- 2. Type your answers. Use the less than key ("<") to represent an angle, followed by three letters.
 - (a) Name a right angle: _____
 - (b) Name the ray opposite to \overrightarrow{OE} :
 - (c) What is the measure of $\angle AOC$?
 - (d) Name the angle vertical to $\angle AOB$:



- 3. As shown below, two lines intersect making four angles: $\angle 1$, $\angle 2$, $\angle 3$, and $\angle 4$. Given $m \angle 1 = 75^{\circ}$.
 - (a) Find $m\angle 3$

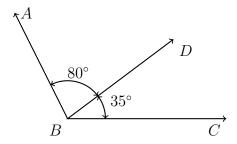


(b) Find $m\angle 2$

 $4.\,$ Apply the Angle Addition postulate. Write and equation to support your work.

Given
$$m \angle ABD = 80^{\circ}$$
 and $m \angle DBC = 35^{\circ}$.

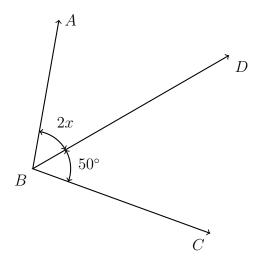
Find $m \angle ABC$.



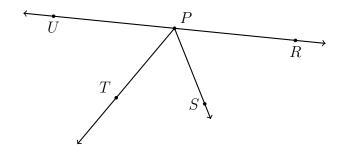
5. Given the angle measures and situation shown, write an equation and solve for x.

$$m \angle ABD = 2x$$

 $m \angle DBC = 50^{\circ}$
 $m \angle ABC = 110^{\circ}$.



6. 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.

7. Given \overline{DEFG} , $DE=1\frac{2}{5}$, $EF=2\frac{3}{10}$, and $FG=\frac{4}{5}$. (diagram not to scale) Find DG, expressed as a fraction, not a decimal.

