Lesson 1.5 Worksheet

1.) In the space below, sketch an example of adjacent angles that are complementary. Are all complementary angles adjacent angles? *Explain*.

In exercises 2-3, tell whether the indicated angles are adjacent. *Explain* why or why not.

2.) $\angle ABD$ and $\angle DBC$

3.) $\angle WXY$ and $\angle XYZ$



4.) Name a pair of complementary angles and a pair of supplementary angles in the picture below.

Complementary:

Supplementary:

In exercises 5-6, find the measure of $\angle DEG$ and $\angle GEF$.





$m \angle DEG = $	$m \angle DEG = $	
$m \angle GEF = $	$m \angle GEF = $	



Name: _____

Use the diagram below to tell whether the angles are vertical angles, a linear pair, or neither.



State whether the following statements are always, sometimes, or never true. *Explain your reasoning*.

- 12.) An obtuse angle has a complement.
- 13.) The compliment of an acute angle is an acute angle.
- 14.) A straight angle has a supplement.
- 15.) The supplement of an acute angle is an obtuse angle.

$\angle A$ and $\angle B$ are complementary. Solve for *x*, then find $m \angle A$ and $m \angle B$.

16.) $m \angle A = (11x + 24)$ $m \angle B = (x + 18)$

 $x = \underline{\qquad} m \angle A = \underline{\qquad} m \angle B = \underline{\qquad}$

$\angle A$ and $\angle B$ are supplementary. Solve for *x*, then find $m \angle A$ and $m \angle B$.

17.) $m \angle A = (2x - 20)$ $m \angle B = (3x + 5)$

 $x = \underline{\qquad} m \angle A = \underline{\qquad} m \angle B = \underline{\qquad}$