Name_____ Date_____

12.1 & 12.2 – Revisited

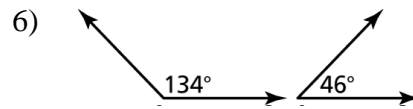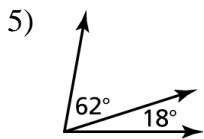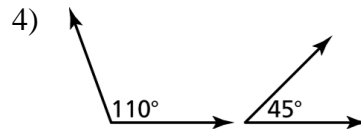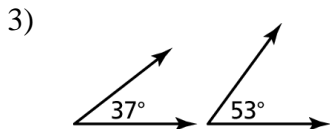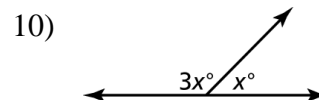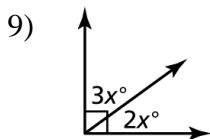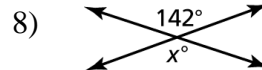Name two pairs of adjacent angles and two pairs of vertical angles in the figure.

1)

2)
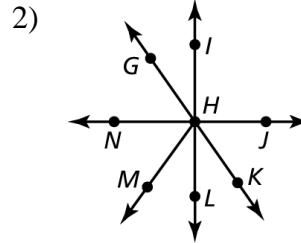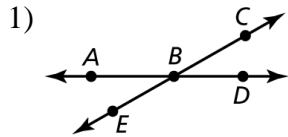
Tell whether the angles are *complementary*, *supplementary*, or *neither*.

3)

37°   53°

4)

110°   45°

5)

62°   18°

6)

134°   46°

Tell whether the angles are *complementary, supplementary* or *vertical*. Then find the value of *x*. Show all algebraic work.

7)

$x°$ 32°

8)

142°
$x°$

9)

$3x°$
$2x°$

10)

$3x°$ $x°$

11)

6x°

(x − 2)°

12)

80° x°
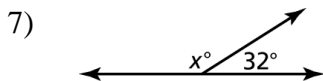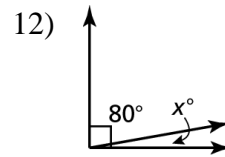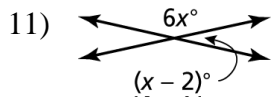
Tell whether the statement is *always*, *sometimes*, or *never* true. Explain.

13) If x and y are supplementary angles, then y is acute.

14) If x and y are complementary angles, then x is obtuse.

15) Angle x and angle y are complementary. Angle x is supplementary to a $128°$ angle. What are the measures of angle x and angle y?

16) Find all the missing angles.

a

c   41°

t