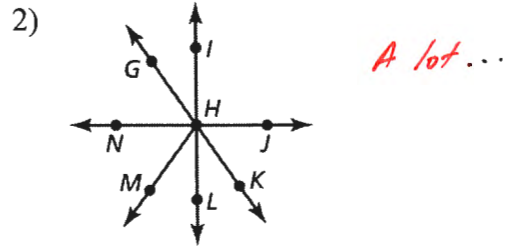
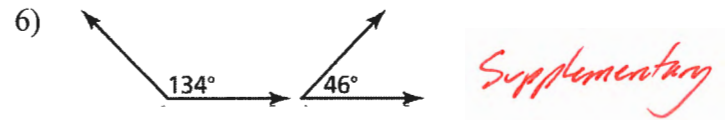
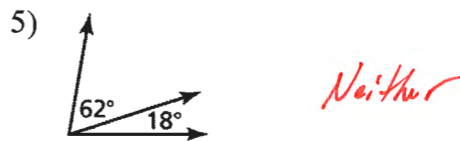
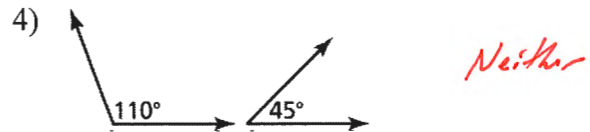
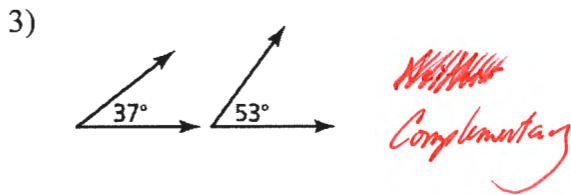


Review – Special Pairs of Angles

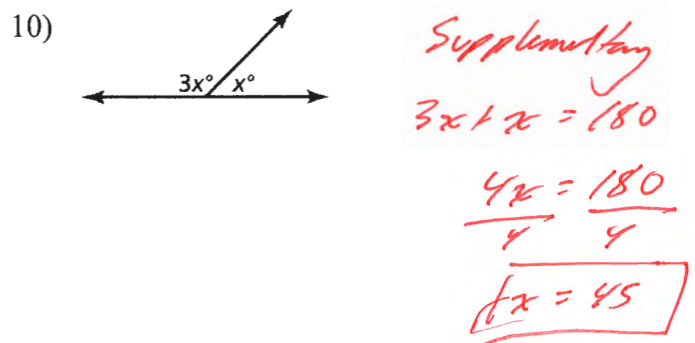
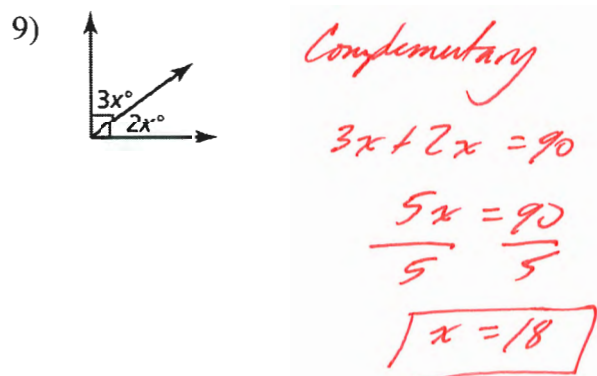
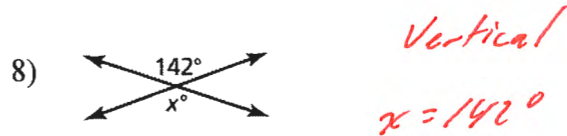
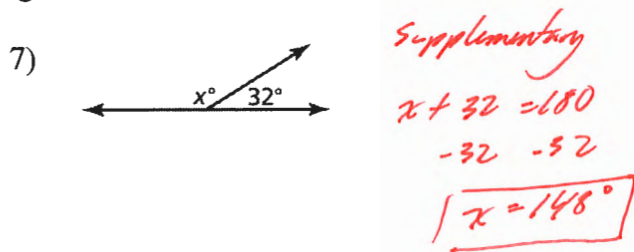
Name two pairs of adjacent angles and two pairs of vertical angles in the figure.

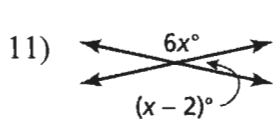


Tell whether the angles are complementary, supplementary, or neither.



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





Supplementary

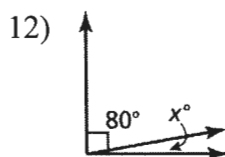
$$6x + (x - 2) = 180$$

$$7x - 2 = 180$$

$$+2 \quad +2$$

$$7x = 182$$

$$\boxed{x = 26^\circ}$$



Complementary

$$x + 80 = 90$$

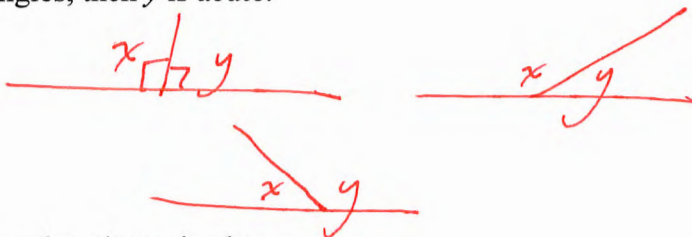
$$-80 \quad -80$$

$$\boxed{x = 10}$$

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

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

Sometimes



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

Never. Complementary angles add up to 90° . However, obtuse angles are greater than 90° .

- 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 ?

$$x + 128 = 180$$

$$-128 \quad -128$$

$$\boxed{x = 52^\circ}$$

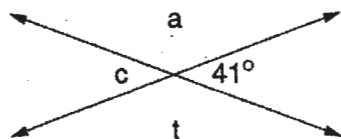
$$x + y = 90$$

$$52 + y = 90$$

$$-52 \quad -52$$

$$\boxed{y = 38^\circ}$$

- 16) Find all the missing angles.



$$m\angle a = 139^\circ$$

$$m\angle c = 41^\circ$$

$$m\angle t = 139^\circ$$