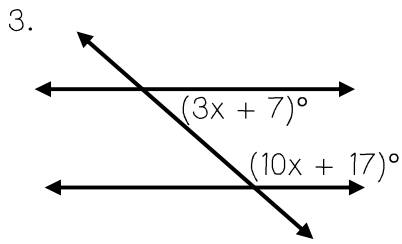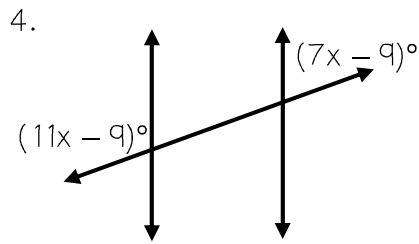In 3-8, a pair of parallel lines is cut by a transversal. Set up and solve equations to find the marked angle measurements.

3.

$(3x + 7)°$

$(10x + 17)°$
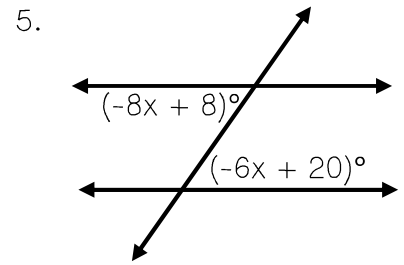
Equation: _____

Value of x: _____

Angle measures: _____

4.

$(7x - 9)°$

$(11x - 9)°$

Equation: _____

Value of x: _____

Angle measures: _____

5.

$(-8x + 8)°$

$(-6x + 20)°$

Equation: _____

Value of x: _____

Angle measures: _____

6.

$(5x + 6)°$

$(8x - 39)°$

Equation: _____

Value of x: _____

Angle measures: _____

7.

$(15x - 2)°$

$(11x + 34)°$

Equation: _____

Value of x: _____

Angle measures: _____

8.

$(-5x + 32)°$

$(-20x + 48)°$
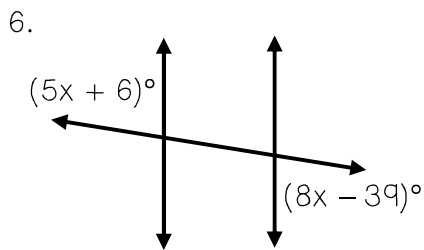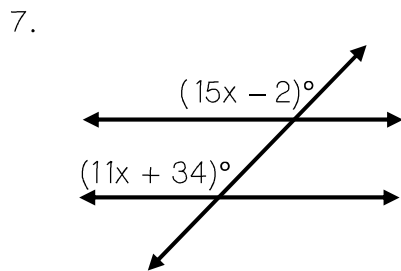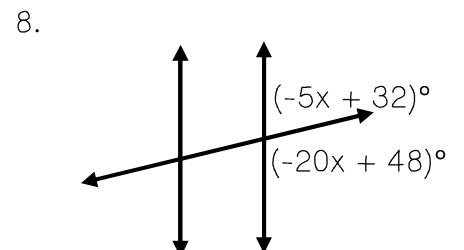
Equation: _____

Value of x: _____

Angle measures: _____

9. Use the parallel lines cut by a transversal to mark a-c as true or false. If false, correct the statement in the space below.

$(4x - 2)° \quad (3x + 35)°$

_____ a. The value of x can be found using $4x - 2 = 3x + 35$.

_____ b. The value of x = 21.

_____ c. Each of the marked angles measures 82°.