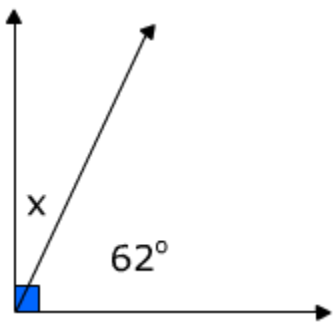Use an equation to find the value of x.

1)
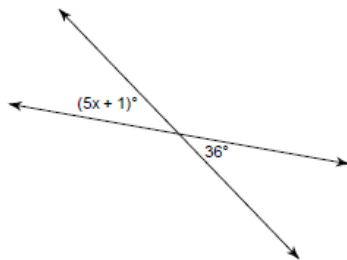

X= _____

2)
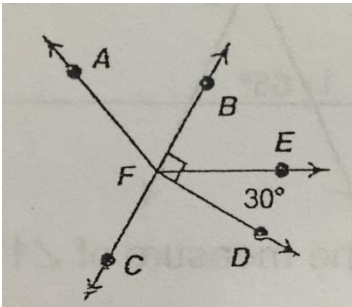

(x+3)°

2

1 (2x -3)°

X= _____

3)

(5x + 1)°

36°
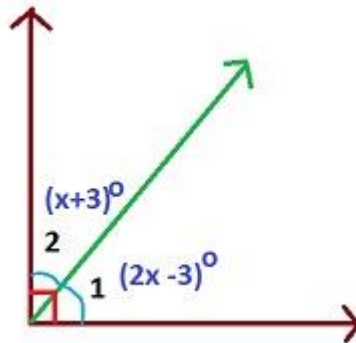
X= _____
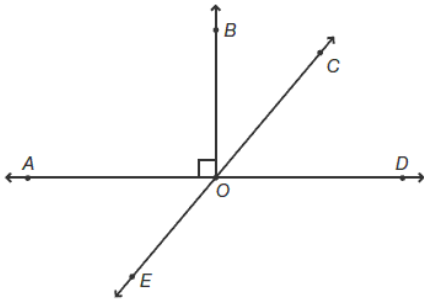
4) Find the indicated missing angles. Show your work.

A
B
E
F
30°
C D

∠DFC _____   ∠EFB _____
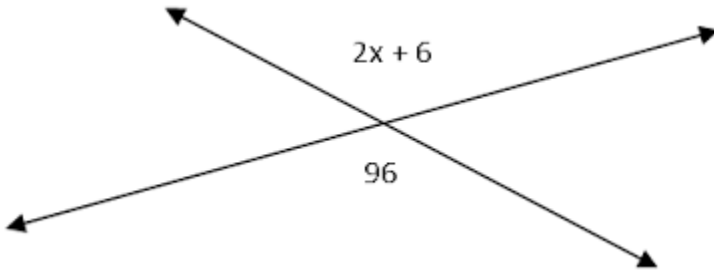
5) Identify all angle relationships shown below.

Find a pair of complementary angles _____

Find two pairs of supplementary angles_____ _____

Find a pair of vertical angles _____

6) In the picture below, find the value of x.

2x + 6

96

Simplify the following expressions
7) -2x+4y-10x-9y   8) 4(-3x-2)

9) Identify the error and then solve the problem correctly. Show your work.

$$-\tfrac{1}{2}(4x - 16) = 16$$
$$2x + 8 = 16$$
$$2x = 8$$
$$x = 4$$

10) Find the surface area for the following shape.

4.9'

2.2'

5.5'