Math 2   Name_____

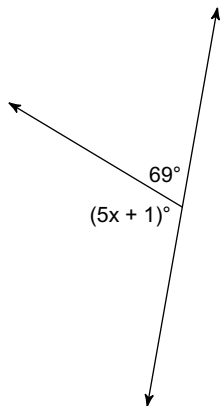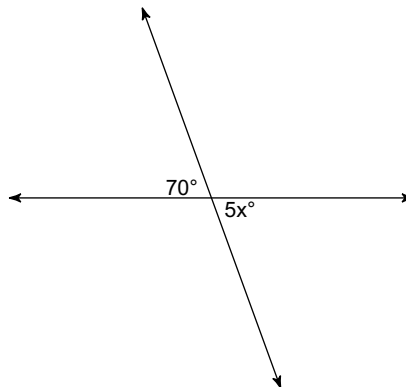# Vertical Angles and Exterior Angle Theorem   Date_____ Period_____

Find the measure of angle b.

1)

b
56°

2)

107°
b

Find the value of x.
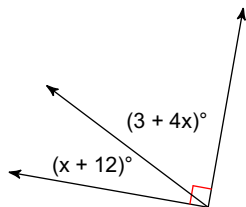
3)

69°
(5x + 1)°

4)

70°
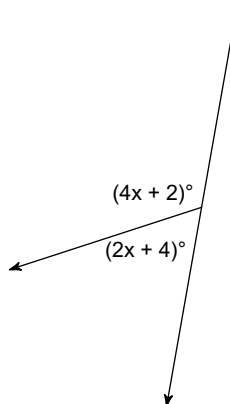5x°

5)

(3 + 4x)°
(x + 12)°

6)

(4x + 2)°
(2x + 4)°
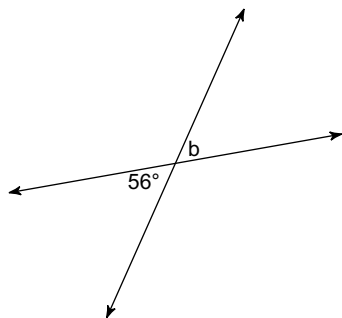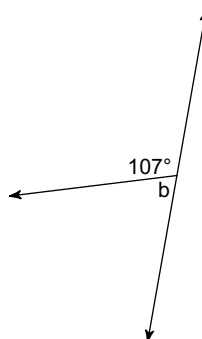
Find the measure of each angle indicated.

7)

E
55°
50°
D   C
?
Z

8)

D
?
T   U
34°
72°
V

Solve for *x*.

9)

Q
35°
20x   14x + 1
Y   P   R

10)

Y
B
26x
45°   16x + 5
D   C

11)

U
6x − 9
105°   6x + 6
A   T   V

12)

H
11x
26x − 4   F
G   144°
T
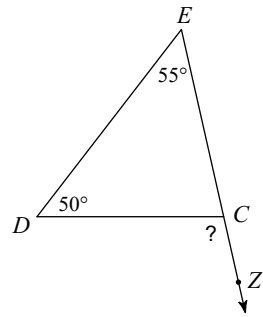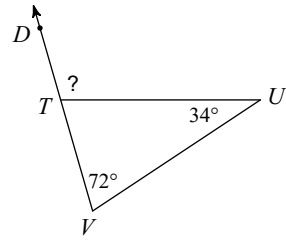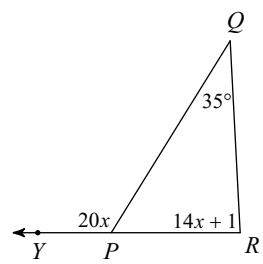
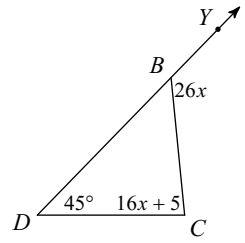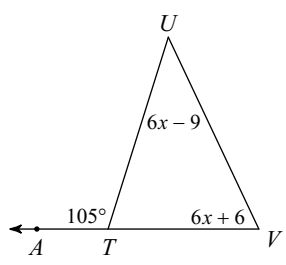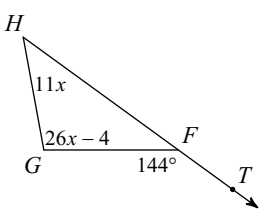# Answers to Vertical Angles and Exterior Angle Theorem

1) 56°   3) 22   5) 15   7) 105°
9) 6   11) 9