

Chapter 3 sec 2

Evaluate the expression at the given value of x.

1)  $-3x^2 - 6x + 3$  where  $x = 7$

2)  $5x^2 + 2x + 4$  where  $x = -1$

3)  $6x - 1$  where  $x = -10$

4)  $-9x + 12$  where  $x = 5$

5)  $\frac{9-2x}{-x}$  where  $x = -1$

6)  $\frac{6x-10}{5+x}$  where  $x = -6$

Evaluate the expression at the given values of x and y

7)  $|x| - |y|$  where  $x = -5, y = 4$

8)  $|x - y|$  where  $x = 4, y = 4$

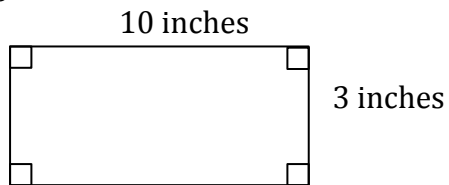
9)  $3x^2 - 2xy - 5y^2$  where  $x = 2, y = 5$

10)  $-5x^2 - 4y^2$  where  $x = -2, y = -5$

11) The formula:  $C = \frac{5(F-32)}{9}$  gives the Celsius temperature C in terms of the Fahrenheit temperature F. Use the formula to find the Celsius temperature ( $^{\circ}\text{C}$ ) if the Fahrenheit temperature is  $F = 230^{\circ}\text{F}$ .

Find the perimeter and area of the following figures.

12)



13)

