Exam 1

3.
$$-4x^2 - x - 4$$
 $-4(-2)^2 - (-2) - 4$ $-4(4) + 2 - 4$ $-16 - 2$ -18 $8 - 3x^2$ $8 - 3(-2)^2$ $8 - 3(4)$ $8 - 12$ -4

9.
$$y = mx + b$$
 $y - y_1 = m(x - x_1)$ (1,1)
 $-2x + 4$ $-1^2 + 4(1) - 2$
 $-2x = -4$ $x = 2$ $-1 + 4 - 2$

$$\frac{y-1=-\frac{1}{2}(x-1)}{y=-\frac{x}{2}+\frac{3}{2}}$$

11.
$$5(x+h)+4-(6x+4)$$
 $5x+5h+20-5x-4$ $5h+16$

h

 $5(-6)+1b$ $-30+1b$ -14 7
 -6 -6 -6 3

13. 7(6) X4 +1 35x4+1 $\frac{y_1 - y_2}{x_1 - x_2}$ $\frac{2 + y_1}{2 - 3}$ 14. 15. 1-3x = - 5x2+2x+11 -3 = -10x +2 " $1-3(-1)=-5(-1)^2-2+11$ 1+3=-5+9 4=4-3 = -10(-1)+2-3=10+2 -3=12 17. 2x4 -4x3 +5x2 2x3 -3x-2 18.