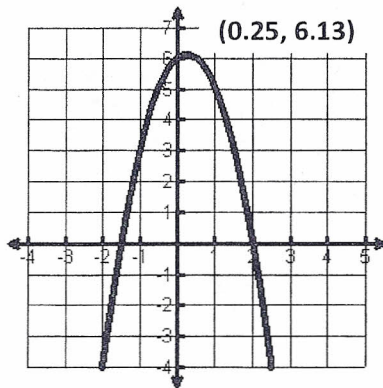


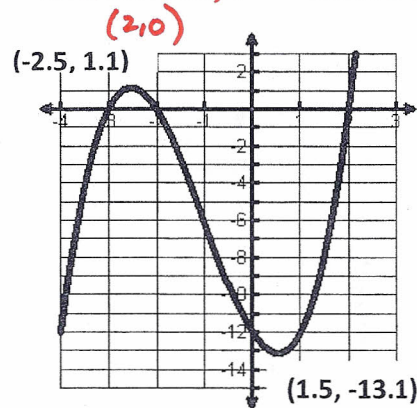
Name: _____

Date: _____

5. $f(x) = -2x^2 + x + 6$

Rel. Max: $(.25, 6.13)$ Rel. Min: NAAbs. Max: $(.25, 6.13)$ Abs. Min: NAInc: $(-\infty, .25)$ Dec: $(.25, \infty)$ Domain: \mathbb{R} Range: $(-\infty, 6.13)$ 

6. $f(x) = x^3 + 3x^2 - 4x - 12$

Rel. Max: $(-2.5, 1.1)$ Rel. Min: $(1.5, -13.1)$ Abs. Max: NA Abs. Min: NAInc: $(-\infty, -2.5)(1.5, \infty)$ Dec: $(-2.5, 1.5)$ Roots: $(-3, 0)(-2, 0)$ y-int: $(0, -12)$ Identify the **y-intercept** and the **# of zeros**

7. $f(x) = x^3 - 16$

Y-Int: $(0, -16)$ # of Zeros: 3

8. $f(x) = x^2 + x - 1$

Y-Int: $(0, -1)$ # of Zeros: 2

9. $f(x) = 9x^4 + x^3 - 3x - 10$

Y-Int: $(0, -10)$ # of Zeros: 4

10. $f(x) = x^3 - x - 2$

Y-Int: $(0, -2)$ # of Zeros: 3

11. $f(x) = 7x$

Y-Int: $(0, 0)$ # of Zeros: 1

12. $f(x) = -2x^3 + 7$

Y-Int: $(0, 7)$ # of Zeros: 3