

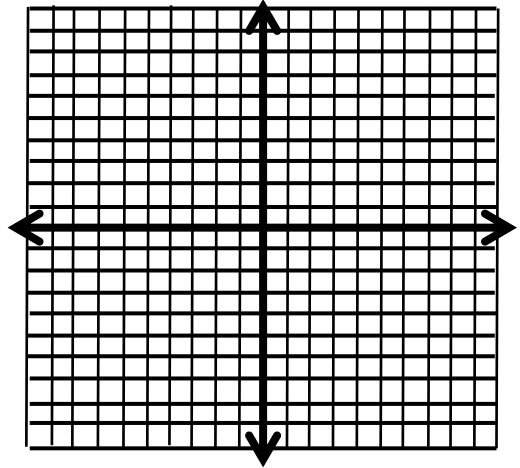
Worksheet #2 Lesson 3.7

Name _____

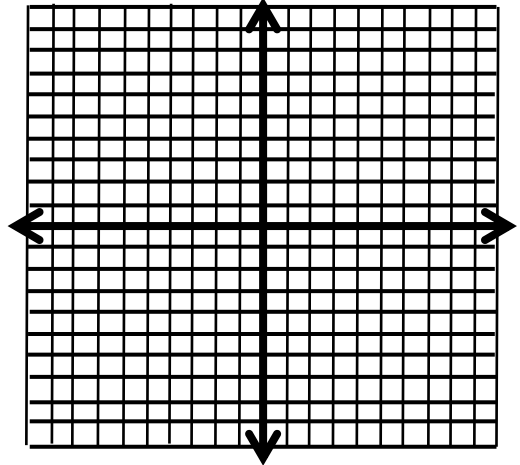
Block _____ Date _____

Factor each polynomial, then graph the function.

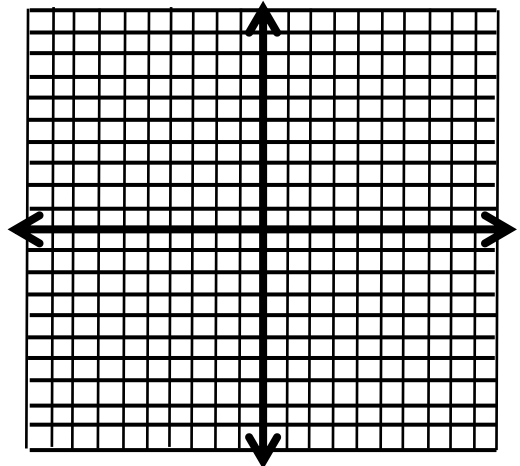
1) $x^3 - 3x^2 - x + 3 = 0$



2) $x^3 - 2x^2 - 4x + 8 = 0$



3) $x^4 - 10x^2 + 9 = 0$



Find the minimum(s) and maximum(s) of each function.

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

Minimum = _____

Maximum = _____

5) $f(x) = x^3 - 3x^2 + 5$

Minimum = _____

Maximum = _____

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

Minimum = _____

Maximum = _____

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

Minimum = _____

Maximum = _____