

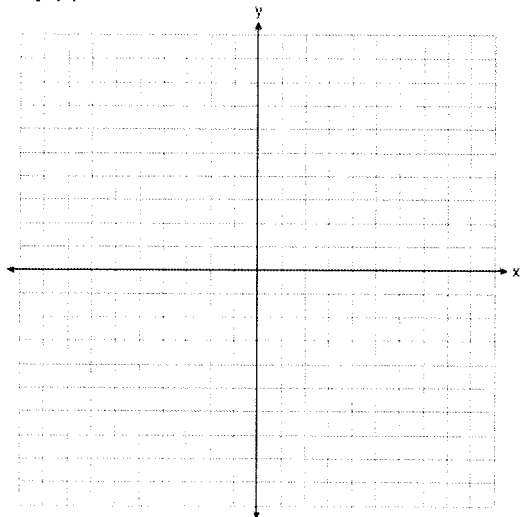
Name _____
Mr. Schlansky

Date _____
Algebra II



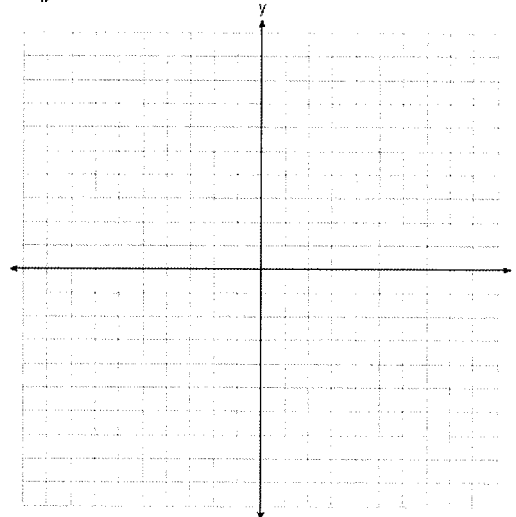
Graphing Polynomial Equations

1. $f(x) = x^3 - 6x^2 + 9x + 6$ on the domain $-1 \leq x \leq 4$. 2. $y = x^3 - 4x^2 + 2x + 7$



$x \rightarrow -\infty, f(x) \rightarrow$

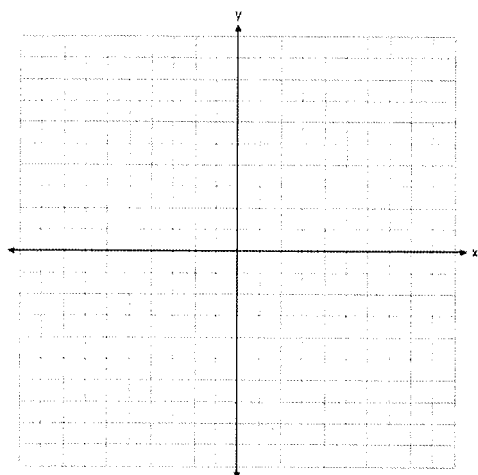
$x \rightarrow \infty, f(x) \rightarrow$



$x \rightarrow -\infty, f(x) \rightarrow$

$x \rightarrow \infty, f(x) \rightarrow$

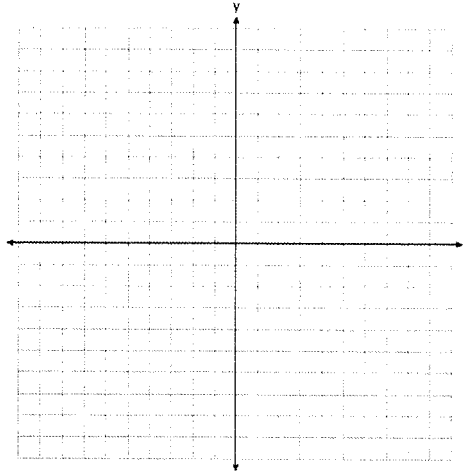
3. $p(x) = -x^3 - x^2 + 4x + 4$



$x \rightarrow -\infty, f(x) \rightarrow$

$x \rightarrow \infty, f(x) \rightarrow$

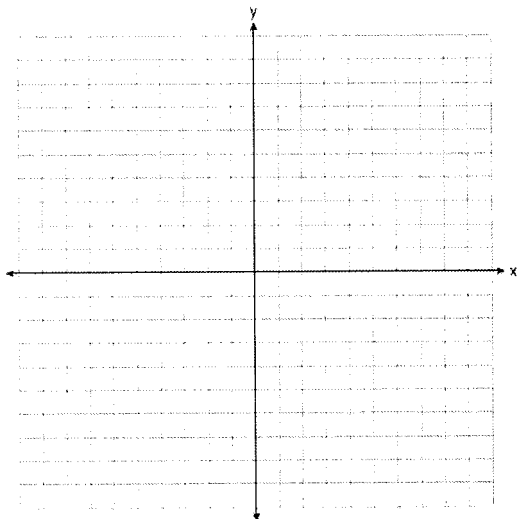
4. $p(x) = x^3 + 2x^2 - x - 2$ from $-2 \leq x \leq 1$



$x \rightarrow -\infty, f(x) \rightarrow$

$x \rightarrow \infty, f(x) \rightarrow$

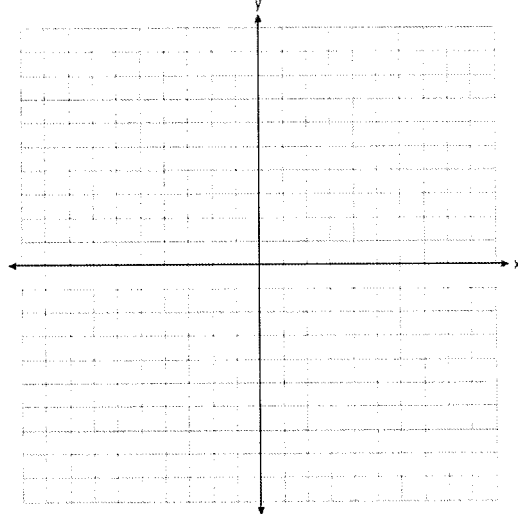
5. $p(x) = -x^3 + 4x^2 - 2x - 4$ from $-1 \leq x \leq 3$



$x \rightarrow -\infty, f(x) \rightarrow$

$x \rightarrow \infty, f(x) \rightarrow$

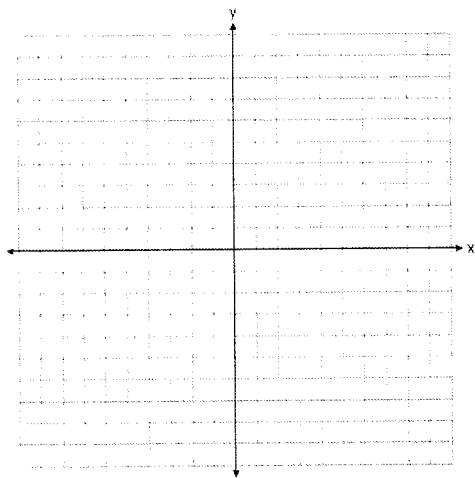
6. $p(x) = x^3 - 3x^2 - 5x + 1$



$x \rightarrow -\infty, f(x) \rightarrow$

$x \rightarrow \infty, f(x) \rightarrow$

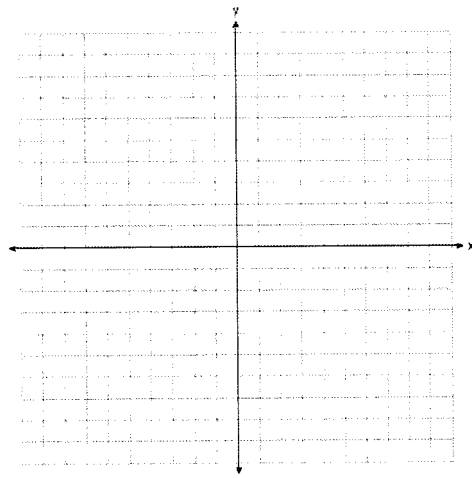
7. $p(x) = x^3 - 2x^2 + 3x - 8$



$x \rightarrow -\infty, f(x) \rightarrow$

$x \rightarrow \infty, f(x) \rightarrow$

8. $p(x) = -x^4 + x^2 - 7x + 2$ from $-2 \leq x \leq 1$



$x \rightarrow -\infty, f(x) \rightarrow$

$x \rightarrow \infty, f(x) \rightarrow$