Name:
 Class:
 Date:
 ID: VI



<u>Sketch</u> a graph of the following polynomial function. Your graphs do <u>not</u> have to be exact, but must display correct end behavior, and display correct behavior at each *x*-intercept.



Name :	Class:	Date:	ID: VI
--------	--------	-------	--------

In order to graph these last three functions, you should use the Rational Root Theorem to factor these polynomials.

<u>Sketch</u> a graph of the following polynomial function. Your graphs do <u>not</u> have to be exact, but must display correct end behavior, and display correct behavior at each *x*-intercept.

 \leftarrow + +

-8 -7 -6 -5 -4 -3 -2 -1

7.
$$P(x) = x^3 - 2x^2 - 5x + 6$$

8.
$$P(x) = -x^3 + 8x^2 - 19x + 12$$



1 2 3 4 5 6 7 8 ^x

9.
$$P(x) = x^4 + x^3 - 28x^2 + 20x + 48$$

