Algebra II/Trig
Roots of Polynomials
& The Graphing Calculator

Name: Key
Block: 1 Date: ______

Use the rational root theorem to list the possible roots & determine the actual roots.

1. $y = 2x^3 - 3x^2 - 2x + 3$

[illegible]

2. $y = 4x^3 + 8x^2 + x - 3$

[illegible]

3. $y = x^4 - 2x^3 - 4x^2 + 10x - 6$

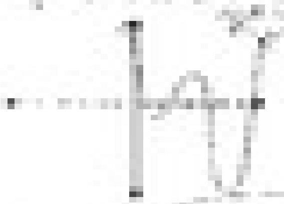
[illegible]

4. $y = 2x^3 + 3x^2 + 5x + 2$

[illegible]

What if none of the roots are rational?

$y = x^4 - 9x^3 + 23x^2 - 24x + 6$



Graphing Calculator Directions:
1. Graph the function
2. Press the calc key (2^{nd} trace)
3. Choose zero
4. Move the cursor to the left of the zero
5. Move the cursor to the right of the zero
6. Guess! Hit enter
7. The root will be at the bottom of the screen