

PreCalculus '14-15

Name: _____

Dr. Quattrin

Radical Test-- CALCULATOR ALLOWED

Round to 3 decimal places.

Score _____

Show all work.

1. Find the zeros and Domain of $y = \sqrt{-3x^3 + x^2 + 48x - 16}$. Show the supporting algebraic work.

2. Find the extreme points of $y = \sqrt{-3x^3 + x^2 + 48x - 16}$. Show the derivative and algebra to support the critical values.

3. Find the domain and critical values of $y = \sqrt{5x^3 - 3x^2 + 5x - 3}$.

4. Find the zeros and Domain of $y = \sqrt{-x^4 + 16x^2 - 63}$. Show the supporting algebraic work.

5. Find the extreme points of $y = \sqrt{-x^4 + 16x^2 - 63}$. Show the derivative and algebra to support the critical values.

PreCalculus '14-15

Name: _____

Dr. Quattrin

Radical Test—CALCULATOR NOT ALLOWED

Show all work.

Score _____

6a. $\frac{d}{dx} \left[(4x^3 - 9x^2)^5 \right]$

6b. $\frac{d}{dx} \left[\sqrt[4]{6x^2 - 16x + 3} \right]$

7. Find the traits and **sketch** $y = \sqrt{-3x^3 + x^2 + 48x - 16}$.

Domain:

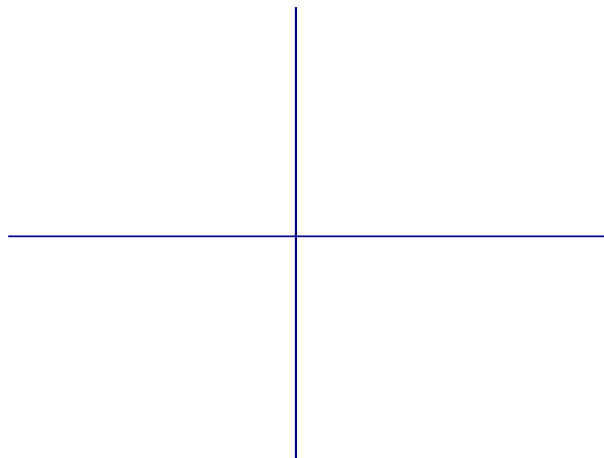
Range:

Y – Int:

End Behavior:

Zeros:

Extreme Points:



8. Find the traits and **sketch** of $y = \sqrt{-x^4 + 16x^2 - 63}$.

Domain:

Y – Int:

Zeros:

Range:

End Behavior:

Extreme Points:

