PreCalculus '13-14 Name:_____ _____
Dr. Quattrin
Radical Practice Test-- CALCULATOR ALLOWED
Round to 3 decimal places. Score _____
Show all work.

1. Find the zeros and Domain of $y=\sqrt{-3x^3+5x^2+48x-80}$. Show the supporting algebraic work.

2. Find the critical values and extreme values of $y=\sqrt{-3x^3+5x^2+48x-80}$. Show the derivative and algebra to support the critical values.

3. Find the critical values of $y = \sqrt{x^4 - 4x^2 + 32}$ on $x \in [-4, 4]$.

4. Find the zeros, VAs, and Domain of $y = \sqrt{\frac{-3x}{x^2 + 5}}$. Show the supporting algebraic work.

5. Find the critical values and extreme values of $y = \sqrt{\frac{-3x}{x^2+5}}$. Show the derivative and algebra to support the critical values.

PreCalculus '13-14 Name:_____

Dr. Quattrin

Radical Practice Test—CALCULATOR NOT ALLOWED

Show all work. Score _____

6a. $\frac{d}{dx}\left[\left(7x^2-2x\right)^{17}\right]$

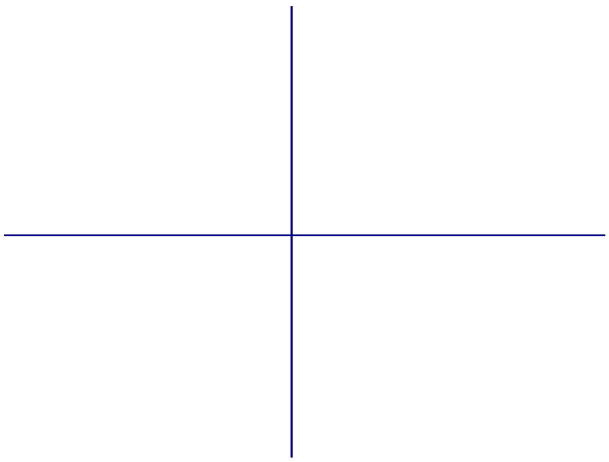
6b. $\frac{d}{dx}\left[\sqrt[5]{5x^2-10x+1}\right]$

7. Find the traits and **sketch** $y=\sqrt{-3x^3+5x^2+48x-80}$.

Domain: Range:

Y – Int: End Behavior:

Zeros: Extreme Points:



8. Find the traits and **sketch** of $y = \sqrt{\frac{-3x}{x^2+5}}$.

Domain:

Y – Int:

Zeros:

Range:

VAs:

End Behavior:

POEs:

Extreme Points: