

Q-Quiz A  
Function Analysis w/Calc

Precalculus

Name Key  
Date \_\_\_\_\_ Bell \_\_\_\_\_

Given:  $f(x) = 0.7x^3 + 2x^2 - 4x - 6$ ; Find each:  
**Round ALL values to 3 decimal places.**



82a  
Rounding Max 5  
No  $x=0$  (2)

1. Relative Max:

$(-2.629, 5.620)$

2. Relative Min:

$(.724, -7.582)$

In ordered  
pr

3. Zero(s):

$\{x \mid -3.770, -1.119, 2.032\}$

4. Increasing Interval(s):

$(-\infty, -2.629) \cup (.724, \infty)$

5. Decreasing Interval(s):

$(-2.629, .724)$

6.  $f(3) = 18.9$

7.  $f(f(-2)) =$

$f(4.4) = 74.749$

8. Where is  $f(x) = 0$

at  $x = -3.770, -1.119, 2.032$

9. Where is  $f(x) \geq 0$

$[-3.770, -1.119] \cup [2.032, \infty)$

10. Where  $f(x) = 4$

at  $x = -3.268, -1.895, 2.306$