

**Math 41**  
**Quiz 4**  
**February 26, 2016**

name \_\_\_\_\_

1. Use the Leading Coefficient Test to determine the left and right hand end behavior of the graphs of polynomial functions.

a.  $f(x) = -4x^5 - 2x^3 + 4x^2 - 5$

b.  $g(x) = 3x^4 - 6x^3 - 2x^2 + 4x - 1$

2. Find all real zeros of the function by factoring:  $f(x) = x^2 - 2x - 8$

3. Find all real zeros of the function by factoring:  $f(x) = 2x^3 - x^2 - 10x + 5$