

SHOW ALL WORK TO RECEIVE FULL CREDIT. NO CALCULATORS.

1. (2 points each) For  $f(x) = 2x^2 - 3x$ , find the following.
  - (a)  $f(5)$
  
  
  
  
  
  
  
  
  
  
  - (b)  $f(x + 5)$
  
  
  
  
  
  
  
  
  
  
  - (c)  $f(-x)$
  
  
  
  
  
  
  
  
  
  
2. (4 points each part) Let  $f(x) = 2x + 1$  and  $g(x) = -\sqrt{3x - 2}$ . Find the following functions **and** identify their domains.
  - (a)  $(f - g)(x)$
  
  
  
  
  
  
  
  
  
  
  - (b)  $(f/g)(x)$

## Quiz #2

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3. (6 points) Use the given graph of  $g(x)$  to answer the following.
- (a) Find  $g(2)$  and  $g(-2)$ .
  
  - (b) What is the domain of  $g$ ?
  
  - (c) What is the range of  $g$ ?
  
  - (d) What are the x-intercepts of  $g$ ?
  
  - (e) What is the y-intercept of  $g$ ?
4. (1 point) EXTRA CREDIT. Is the function  $f(x)$  from question #1 an *odd* function? Why or why not?