

Quiz #2

Name: _____

SHOW ALL WORK TO RECEIVE FULL CREDIT. NO CALCULATORS.

- (2 points each) For $f(x) = 2x^2 - 3x$, find the following.
 - $f(5)$

 - $f(x + 5)$

 - $f(-x)$

- (4 points each part) Let $f(x) = 2x + 1$ and $g(x) = -\sqrt{3x - 2}$. Find the following functions **and** identify their domains.
 - $(f - g)(x)$

 - $(f/g)(x)$

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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?