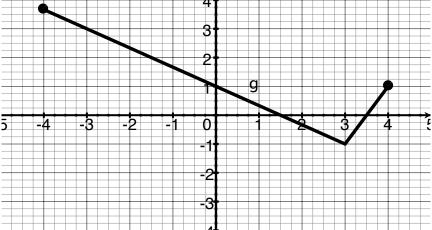
Quiz 2

Show all your work. No credit is given without reasonable supporting work. There are two sides to this quiz.

1. [2] (Line Wks #13) Find the equation of a line perpendicular to the line that passes through (-2, -1) and (4, 3). Note, there are many right answers!

2. [1] (§1.6 #20) Let f(x) = 2x + 1 and $g(x) = 3x^2 - x$. Find $(f \cdot g)(-2)$

- 3. Let g be the piecewise defined gi
 - (a) [2] (WebHW5 #11) Find $(g \circ g)(-3)$



(b) [3] (GraphTransf Wks #1) Given that g is comprised of two lines, find the piecewise defined algebraic rule of g in the form below.

$$f(x) = \left\{ \right.$$

$$if -4 \le x < 3$$

$$if 3 \le x \le 4$$

(c) [2] (§1.5 #86) Graph the function $\frac{1}{2}g(x)$.