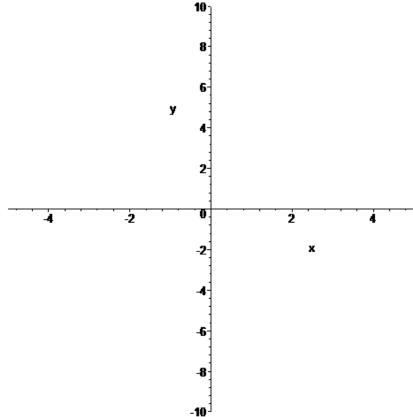
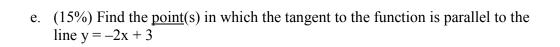
Name:	Date:

QUIZ - TANGENTS AND NORMALS TO FUNCTIONS

- 1. (100%) Given the function $f(x) = 2x^2 + \frac{1}{x}$
 - a. (15%) Use your GDC to sketch it on the following graph:



- b. (15%) Find its derivative.
- c. (10%) Find the <u>slope</u> of the tangent to the function at the point where x = 1, sketch it on graph.
- d. (10%) Find the slope of the normal to the function at the point where x = -1, sketch it on graph.



f. (20%) Find the equation of the tangent where
$$x = 2$$

g.
$$(15\%)$$
 Find the equation of the normal where $x = -2$