

## Math 2250 Quiz 5

Name \_\_\_\_\_ Section \_\_\_\_\_

*Points will be deducted for untidy or disorganized answers*

1. (2 points) Find

$$\frac{d}{dx} \ln(1 - 2x)$$

2. (3 points) The curve defined by the equation  $y^2 = x^3 + 3x^2$  is called a *Tschirnhauser's cubic*.

- (a) Find an equation for the tangent line to this curve at the point  $(1, 2)$ .  
(b) At what points does this curve have a horizontal tangent.