Math 220 (section AD?) **Quiz 2** **Spring 2017**

Name _____

- You have 15 minutes
- No calculators
- Show sufficient work

1. (4 points) The following curves intersect. Find the x-value for each point of intersection.

$$y = \ln\left(5x^3\right)$$
$$y = 2 + \ln\left(1 - 4x^3\right)$$

2. (3 points) If $p(x) = \dfrac{1}{\ln(4 + 3e^{2x})}$ then determine a formula for $p^{-1}(x)$.

3. (3 points) Determine a formula for a function $f(x)$ which takes on the following values.

x	$f(x)$
10	200
15	100
20	50
25	25
30	12.5