MIE237 Math Test

1. Solve the following linear systems.

a.
$$2x + 3y = 7$$

$$x - y = 1$$

$$x = 1, y = 1$$

2. Solve for the variable. If there are two roots, pick the smallest.

a.
$$x + 4x = 21$$

$$x = 5$$

3. Find the vertical and horizontal asymptotes of the following equations.

a.
$$g(x) = x - 2$$

There is a vertical asymptote at x = 1

4. Solve the following exponential equations:

a.
$$5(3 - 2x) = -5x$$

$$x = 15$$

5.	Given the functions $f(x) = 2x - 5$ and $g(x) = 3x + 4$, evaluate the	е
	following:	
	a. f(3) - g(2)	

Answer is 3