## Math 111 SECTION 6.3 EXTRA EXERCISES

- 15. Use the definition of a logarithm to solve each equation:
  - (a)  $\log_3(x^2 6x + 14) = 2$
  - (b)  $\log_8(x-5) = \frac{2}{3}$

(c) 
$$\log_2 \frac{x+1}{x-2} = 3$$