MEMORIAL UNIVERSITY OF NEWFOUNDLAND DEPARTMENT OF MATHEMATICS AND STATISTICS

Section 2.1	Math 1090 Worksheet	Fall 2009

For practise only. Not to be submitted.

- 1. Solve each of the following equations.
 - (a) $\frac{3}{2}x \frac{1}{3} = \frac{5}{6}$ (b) x - 1 = 1 - x(c) $\frac{1}{4}(x - 6) = -\frac{1}{2}(2x + 3)$ (d) 1 - 5(x - 1) = 3(x + 4) - 2x
- 2. Sketch the graph of each of the following *without* constructing a table of values. Label all important points. What is the slope of each line?
 - (a) f(x) = 2 x
 - (b) 2x 3y 12 = 0
- 3. A line passes through the point $(\frac{1}{2}, -5)$. Find an equation of this line if it
 - (a) is horizontal
 - (b) has slope m = 4
- 4. Find an equation of the line passing through the points (2, -6) and (-1, 3).
- 5. The line ℓ_0 has equation 3x + 2y = -1. Find an equation of the line ℓ passing through the point (-6, 5) which is
 - (a) parallel to the line ℓ_0
 - (b) perpendicular to the line ℓ_0