

MEMORIAL UNIVERSITY OF NEWFOUNDLAND  
DEPARTMENT OF MATHEMATICS AND STATISTICS

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SECTION 2.2 (PART TWO)

Math 1090 Worksheet

FALL 2009

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**For practise only. Not to be submitted.**

1. Solve each of the following equations.

(a)  $5 - |x - 2| = 0$

(b)  $|3 - 2x| = 5$

(c)  $|x + 4| = 3 - x$

(d)  $3|2 - x| = 6 - \frac{7x}{3}$

(e)  $3x - \frac{1}{4}|4x - 1| = 0$

2. Sketch the graph of each of the following functions. Show your workings. Label the graph carefully. Do NOT use a table of values. What are the domain and range of  $f(x)$ ?

(a)  $y = \left|1 - \frac{x}{3}\right|$

(b)  $f(x) = -2|x + 2| - 1$