

MEMORIAL UNIVERSITY OF NEWFOUNDLAND

DEPARTMENT OF MATHEMATICS AND STATISTICS

SECTION 4.2

Math 1090 Worksheet

FALL 2009

For practise only. Not to be submitted.

1. Given $f(x) = 8^x$, evaluate each of the following.

(a) $f(1)$

(b) $f(3)$

(c) $f(0)$

(d) $f(-1)$

(e) $f(-2)$

(f) $f\left(\frac{1}{3}\right)$

2. Solve each of the following exponential equations.

(a) $25^x = \frac{1}{5^{7-6x}}$

(b) $9^{2x-5} = 27^{3x}$

(c) $4^{x^2-1} = 8^{x+1}$