

Calculus 201-007-50 C2

Quiz 1

August 27, 2008

Name: SOLUTIONS

Student ID:

1. (8 marks). Solve for x in the following linear equations:

a)

$$2(x-4) + 2 = -(x-3)$$

$$2x - 8 + 2 = -x + 3$$

$$2x - 6 = -x + 3$$

$$2x + x = 3 + 6$$

$$3x = 9$$

$$\boxed{x = 3}$$

b)

$$\frac{1}{4}x - 3 = 1$$

$$4 \cdot \left(\frac{1}{4}x - 3\right) = 4 \cdot (1)$$

$$4 \cdot \frac{1}{4}x - 4 \cdot 3 = 4$$

$$x - 12 = 4$$

$$x = 4 + 12$$

$$\boxed{x = 16}$$

