

Math 0093 Fall 2000: Solutions to Quiz 1

1.

$$3(x - 2) + 1 = 4x - 3$$

$$3x - 6 + 1 = 4x - 3$$

$$3x - 5 = 4x - 3$$

$$-x = 2$$

$$x = -2$$

2.

Stamp	Number	Value	Total Value
2 cent	$3x$	2	$6x$
43 cent	x	43	$43x$
50 cent	$19 - 4x$	50	$50(19 - 4x)$

$$6x + 43x + 50(19 - 4x) = 497$$

$$49x + 950 - 200x = 497$$

$$-151x = -453$$

$$x = 3$$

There are three 43 cent stamps, nine 2 cent stamps and seven 50 cent stamps.