MFM 2P1 Name: _____

Solving by Substitution

1. For each system, use the given value to find the value of the other variable.

a) $x = 2$
$2x + y = 3$

b) $y = 2$
$4x - 2y = 8$

2. Solve each system of equations.

a) $y = 3x - 8$
$5x + y = 6$

b) $x = 2y + 2$
$5x - 9y = 12$

c) $3x - 2y = -5$
$x = y - 2$

d) $4x - 3y = 9$
$y = 2x + 11$

e) $2x - y = -11$
$y = x - 1$

3. Two meshing gears in a printer have a total of 89 teeth. One of the gears has 4 teeth less than twice the number of teeth of the other gear. Their equations are given by: $x + y = 89$

$y = 2x - 4$

How many teeth does each gear have?