Name: _____

QUIZ 1
August 28, 2001

Calculator are not allowed!

1.(Multiple choice — circle your answer clearly.) The equations

$$5x - 2y = 8$$
$$10x - 4y = 10$$

represent lines that are

(A) perpendicular
(B) parallel (but not identical)
(C) identical
(D) none of the above

2. Solve the following system of equations

$$3x + 2y = 2$$
$$x - 2y = 1.$$

Solutions to Quiz #1

1. Put each equation in $y = mx + b$ form:
$$y = (5/2)x - 4$$
$$y = (5/2)x - (5/2).$$
Both lines thus have the same slope, so they are parallel. They have different y-intercepts, so they are not identical. Answer: B.

2. Add the two equations to get $4x = 3$; so $x = (3/4)$. Now substitute into either one to get $y = -1/8$.