NAME _____ DATE _____ CLASS _____

SAMPLE TEST

ANSWERS

1. **SECTION 8.2** Solve using the substitution method:

$$\begin{cases} 3x + 4y = 2 \\ y = x - 1 \end{cases}$$

1. $x =$ _____
   $y =$ _____

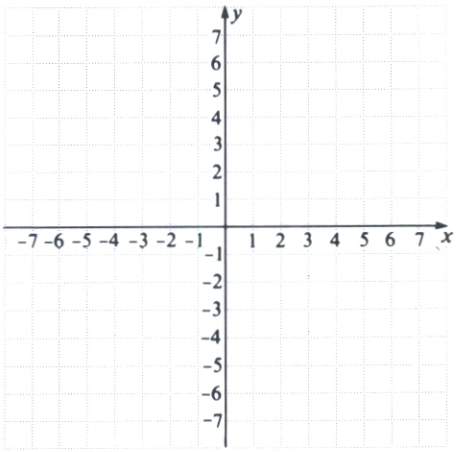
2. **SECTION 8.3** Solve by elimination:

$$\begin{cases} u - 2v = 3 \\ u + 4v = 0 \end{cases}$$

2. $u =$ _____
   $v =$ _____

3. **SECTION 8.1** Determine if the following system is consistent or inconsistent by drawing the graph:

$$\begin{cases} x + 4y = 1 \\ 2x - 5y = 5 \end{cases}$$



3. _____

4. **SECTION 8.5** You are traveling 60 mph in a 45-mph zone. Radar Patrol dispatches a police car from 3 miles ahead of you. If the police car travels 85 mph, how long will it be before the police car gets to your car?

4. _____

5. **SECTION 8.4** You want to purchase a microcomputer system. The sale price for the computer, floppy disk drive, and color monitor is $757. The color monitor costs $100 more than the computer, and the floppy disk drive costs $60 more than the computer. What is the cost of the computer?

5. _____