Chapter 5 College Algebra Practice Test   Score: _____

1. Solve using any method.

y = 4x + 1
3x + 2y = 13

Express your answer as an ordered pair.

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2. Solve using elimination

2x - y + 2z = -8
x + 2y - 3z = 9
3x - y - 4z = 3

Express your answer in the form (x, y, z)

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3. Roses sell for $3 each and carnations sell for $1.50 each. If a mixed bouquet of 20 flowers consisting of roses and carnations costs $39, how many of each type of flower is in the bouquet?

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4. Given this system,

$y \geq 0$
$3x + 2y \geq 4$
$x - y \leq 3$

State which of the following coordinates are solutions to the system.

(8,0), (0,8), (-8,0), (0,-8), (2,3), (2,-3), (-2,-3)

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5. What is true of a system of linear equations that has NO solution?

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6. Solve this system of non-linear equations.

$x^2 + y^2 = 25$
$(x - 8)^2 + y^2 = 41$

Express your answers as ordered pairs in the coordinate plane.

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7. Mr. Wenneborg wears a very stylish sweater that was purchased at the following store.

Ⓐ Sears

Ⓑ Savers

Ⓒ Ralph Lauren Outlet

Ⓓ Hollister

Ⓔ None of these