

Math 121**Quiz 10**

Justify all answers with neat and organized work. Clearly indicate your answers.
10 points possible.

1. (3 pts.) Solve this system by elimination. Show your work clearly. (Do *not* use determinants or Cramer's rule.)

$$2x + 3y = 18$$

$$5x - y = 11$$

2. (3 pts.) Solve this system by elimination. Show your work clearly. (Do *not* use determinants or Cramer's rule.)

$$3x + 2y = 10$$

$$2x + 5y = 3$$

3. (4 pts.) Find the center and vertices of this ellipse, and sketch its graph.

$$4x^2 + 9y^2 + 32x + 90y + 253 = 0$$