

Math 70 - Quiz 3 Sections 3.1 and 3.2, Friday September 21th

Given:

$$x + y = 9$$

$$2x - 3y = -2$$

1). Construct a sketch of each line by hand.

2). Solve above system algebraically using your method of choice. Confirm your solution by comparing it with your sketch above.

3). A small shoe company created the following cost and revenue equations for their line of men's shoes. The cost in C is in dollars for producing x pairs of shoes and the revenue R is in dollars from selling x pairs of shoes.

$$C = 20x + 500 \qquad R = 24x$$

a). Give the units of 20 and 24 for above equations.

b). Find the breakeven point.