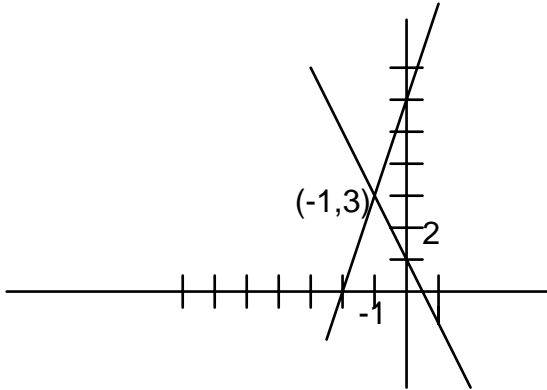


MTH 135 TEST 7 SOLUTIONS

- I. 1. $(2, -1)$ 2. no solution 3. $(-0.05, 0.2)$ 4. same line

II.



- III. 1. \$3000 2. ~ 400 (375, 440) 3. \$10,000 (9,000, 11,000)
4. ~ 200 (180, 220) 5. ~ \$1700 (1000, 2000)

Bonus: \$25 I looked at your method of figuring for partial credit if you didn't get the right answer. The answer turns out to be the slope of the revenue line.

IV.

1. \$4615.38 in savings \$5384.62 in stock
- 2.(a) A: $y = .11x$ B: $y = .07x + 75$
(b) $x = \$1875$ $y = \$206.25$ They pay the same for \$1875 in sales
(c) Company B, since you'll make more money.
3. ship 25 m.p.h. current 5 m.p.h.
4. 30,000 student tickets