

Unit 3 Test: Systems of Equations and Inequalities



The test answer keys provide answers only.

Worked solutions for these problems are located in the Digital Pack.

1)

A) x : Munchkins Bake Shoppe, y : Flying Monkeys Taxi Service

$$x + y = 30$$

$$8x + 18y = 400$$

B) (14, 16)

C) The solution is (14, 16). This means that Glinda works 14 hours at Munchkins Bake Shoppe and 16 hours at Flying Monkeys Taxi Service.

D) $x + y \leq 50$

$$8x + 18y \geq 600$$

2) C

3) B

4) C

5) A

6) A

7) A

8) B

9) D

10) C

11) C

12) B

13) D

14) C

15) A

16) C

17) B

18) A

19) D

20) B

21) C

22) A

23) B

24)

Quadrant I

Quadrant II

Quadrant III

Quadrant IV

25)

(2, -1)

(2, 2)

(0, 4)

(2.67, 4)