Algebra 2

Topic 3 // Test Review D

N:

D: P: 1 2 3 4 5 6

1. How many solutions does the system have?

$-4y = -2x + 2$

$2x - 8y = 6$

2. Tickets for a Tennis match costs $8 each for adult admittance and $5 for students admittance. Anna buys a total of 10 tickets and spends $62. How many tickets for students did Benny buy?

3. Leo has a total of 76 pennies and quarters. If the total value of the coins is $1.00, how many pennies and quarters does he have?
[Just set up the system]

4. What is the solution to the system below

$x-3y + 2z = 2$

$3x - 9y + 6z = 6$

$2x - 3y + z = 4$

5. Solve the system for either x or y [not both]

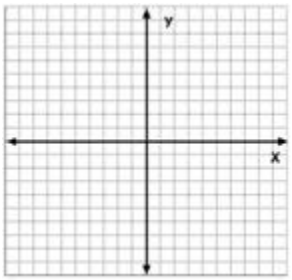
$-5x - 3y = -3$

$2x-y = 10$

6. Solve the following systems of equations or inequalities, by graphing

$3y=2x - 9$

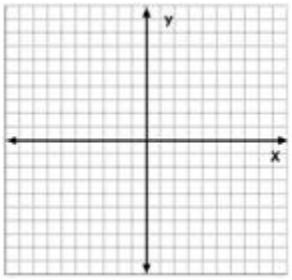
$5x + 4y = 8$



7. Solve the following systems of equations or inequalities, by graphing

$y + x \geq 4$

$y \leq {}^{1}/_{2}\, x$

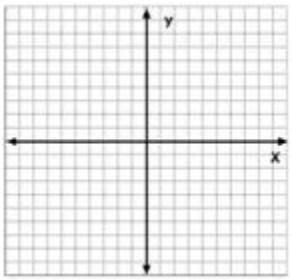


8. Solve the following systems of equations or inequalities, by graphing

$4y > -4x - 12$

$y < -{}^{1}/_{4}x + 2$

$x > -1$

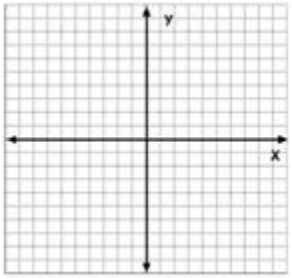


9. Solve the following systems of equations or inequalities, by graphing

$5y < 5x + 10$

$y > {}^{1}/_{2}x - 5$

$x < 3$



Algebra 2 sms 0809

Unit 3 Test Review B Solutions

Name: Sirimanne

Date: Period: 1 2 3 4 5 6

1. How many solutions does the system have?

$-4y = -2x + 2$ (-1, -1)

$2x - 8y = 6$

1 solution

2. Tickets for a Tennis match costs $8 each for adult admittance and $5 for students admittance. Anna buys a total of 10 tickets and spends $62. How many tickets for students did Benny buy?

6 Student Tickets

3. Leo has a total of 76 pennies and quarters. If the total value of the coins is $1.00, how many pennies and quarters does he have? [Just set up the system]

$p + q = 76$

$.01p + .25q = 1.00$

4. What is the solution to the system below

$x-3y + 2z = 2$

$3x - 9y + 6z = 6$

$2x - 3y + z = 4$

∞ many solutions

5. Solve the system for either x or y [not both]

$-5x -3y = -3$

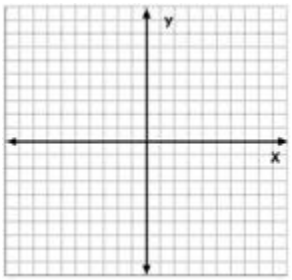
$2x-y = 10$

x =-3 or y= -16

6. Solve the following systems of equations or inequalities, by graphing

$3y=2x -9$

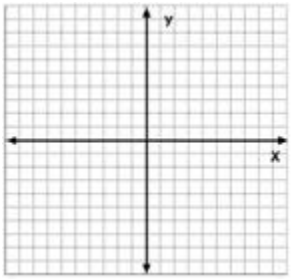
$5x + 4y = 8$



7. Solve the following systems of equations or inequalities, by graphing

$y + x \geq 4$

$y \leq {}^1/_2\, x$

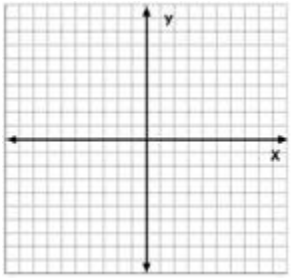


8. Solve the following systems of equations or inequalities, by graphing

$4y > -4x - 12$

$y < -{}^1/_4 x + 2$

$x > -1$



9. Solve the following systems of equations or inequalities, by graphing

$5y < 5x + 10$

$y > {}^1/_2 x - 5$

$x < 3$