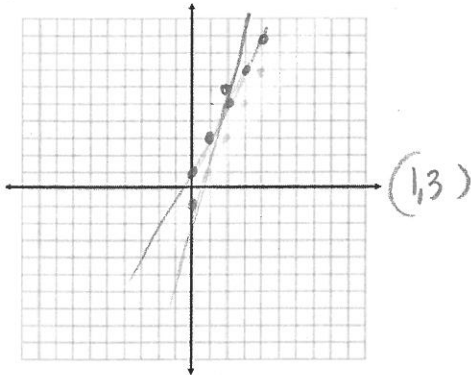


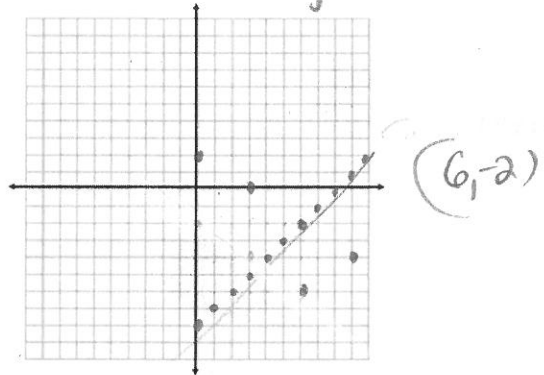
#1-2, Solve each system by graphing.

1. $y = 2x + 1$
 $y = 4x - 1$



2. $2x + 3y = 6$
 $x - y = 8$

$y = 2 - \frac{2}{3}x$
 $y = -8 + x$



#3-4, Solve each system by substitution.

3. $y = 2x + 2.25$
 $2y = 3x - 2$

$2(2x + 2.25) = 3x - 2$
 $4x + 4.5 = 3x - 2$
 $-6.5 = -x$
 $x = 6.5$
 $2(-6.5) + 2.25 = y$
 $y = -10.75$
 (-6.5, -10.75)

4. $2x - 3y = -2$
 $4x + y = 24$

$y = 24 - 4x$
 $2x - 3(24 - 4x) = -2$
 $2x - 72 + 12x = -2$
 $14x = 70$
 $x = 5$
 $2(5) - 3y = -2$
 $10 - 3y = -2$
 $-3y = -12$
 $y = 4$
 (5, 4)

#5-7, Solve each system by the linear combination/addition method.

5. $2x + y = 9$
 $3x - y = 16$

$5x = 25$
 $x = 5$
 $y = -1$
 (5, -1)

6. $2.1x - y = 5.5$
 $3.5x + 4y = -13.5$

$8.4x - 4y = 22$
 $11.9x = 8.5$
 $x = .71$
 $y = 4.01$

7. $3x + 5y = -2$
 $2x - 2y = 4$

$3x = 3$
 $-6x - 10y = 4$
 $6x - 6y = 12$
 $-16y = 16$
 $y = -1$
 $x = 1$
 (1, -1)

#8-10, Translate each situation into (2) equations, then solve the system using any method.

8. Cody has 50 coins, some are nickels, some are dimes. The value of the coins is \$4.15. How many of each type of coin does Cody have?

$x + y = 50$
 $5x + 10y = 415$
 $5y = 165$
 $y = 33$ dimes
 $x = 17$ nickels

9. The bill for five milkshakes and four burgers is \$9.50. The bill for four milkshakes and five burgers is \$10.30. How much does each item cost?

$5m + 4b = 9.50$
 $4m + 5b = 10.30$
 $b = 1.50$
 $m = .70$

10. Erin has \$21.40 in dimes and quarters. She has 100 coins. How many of each?

$.40x + .25q = 21.40$
 $x + q = 100$
 76 quarters
 24 dimes