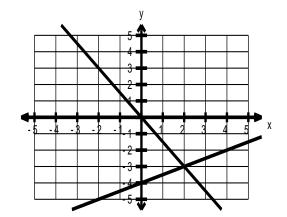
1. Solve for x: $\begin{cases} x - y = 4 \\ 3x + y = 0 \end{cases}$

1.___

- (A) x = -2
- (B) x = -1
- (C) x = 0
- (D) x = 1
- 2. What is the solution to the linear system?

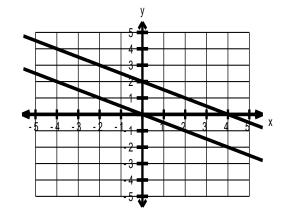
2.____

- $(A) \quad (-3, 2)$
- (B) (0,0)
- (C) (0, -4)
- (D) (2, -3)



- 3. How many solutions are there for the given linear system?
- 3.____

- (A) 0
- **(B)** 1
- (C) 2
- (D) infinite



4. Which system as an infinite number of solutions?

4.____

 $(A) \quad \begin{cases} x = 4 \\ y = 4 \end{cases}$

- (B) $y = \frac{1}{4}x + 1 \\ y = \frac{1}{4}x 3$
- (C) $\begin{cases} x y = 6 \\ 3x 3y = 18 \end{cases}$
- (D) $y = \frac{1}{4}x + 1$ y = -4x + 1
- 5. Joan and Kim downloaded music and videos last month.

	Music	Video	Total Cost
Joan	4	2	\$12
Kimberley	6	4	\$22

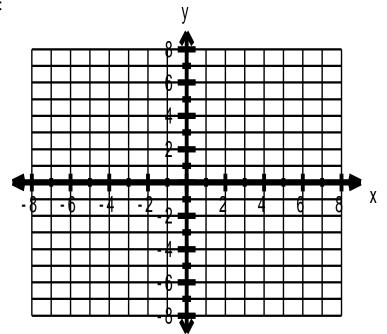
Which system represents the costs?

5.___

(A) 4m + 6v = 122m + 4v = 22 (B) $4m + 4v = 22 \\
6m + 2v = 12$

(C) 4m = 12 - 2v6m = 22 - 4v (D) 4m = 2v - 126m = 4v - 22 6. Solve the system graphically:

$$x - 2y = -10$$
$$2x + y = -5$$



7. Solve each system algebraically:

(a)
$$-3x + 2y = -13$$

 $2x - 7y = 3$

(b)
$$4x + 3y = -5$$

 $-3x + 2y = 8$

- 8. Tickets to a movie cost \$11.50 for adults and \$9.50 for youth. If 300 tickets were sold for \$3210, how many of each kind were sold?
- 9. How many milliliters of both 40% alcohol solution and 60% alcohol solution is required to make 100 ml of 48% alcohol solution?
- 10. \$1040 is invested in the stock market. Shares are purchased with Husky Oil at \$25/share and CIBC at \$18/share. If a total of 50 shares are purchased, determine how many shares of each stock were purchased.

ANSWERS:

1. D

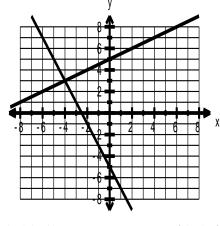
2. D

3. A

4. C

5. C

6.



Point of intersection (-4, 3)

7.(a)(5,1)

(b) (-2, 1)

(c) (-8, 10)

(d) (800, 1000)

- 8. 180 adult tickets sold and 120 youth tickets sold
- 9. 40 ml of 60% alcohol solution and 60 ml of 40% alcohol solution required.
- 10. 20 shares of Husky Oil and 30 shares of CIBC purchased

$$\begin{cases} \frac{3}{2}x + \frac{3}{5}y = -6\\ \frac{3}{4}x - \frac{1}{2}y = -11 \end{cases}$$

$$\begin{cases} x + y = 1800 \\ 0.035x + 0.045y = 73 \end{cases}$$