

Lesson 7-3: Solving Systems Using Elimination

Part 1: Adding or Subtracting to Solve Systems

1. 060007a, P.I. A.A.10

Which ordered pair is the solution of the following system of equations?

$$3x + 2y = 4$$

$$-2x + 2y = 24$$

- [A] (-4,-8) [B] (2,-5)
[C] (2,-1) [D] (-4,8)

2. 080429a, P.I. A.A.10

What point is the intersection of the graphs of the lines $2x - y = 3$ and $x + y = 3$?

- [A] (1, 2) [B] (3, 0)
[C] (3, 3) [D] (2, 1)

3. 060716a, P.I. A.A.10

Which ordered pair satisfies the system of equations below?

$$3x - y = 8$$

$$x + y = 2$$

- [A] (2.5, -0.5) [B] (3, -1)
[C] (5, -3) [D] (2.5, 0.5)

4. 080013a, P.I. A.A.10

What is the value of y in the following system of equations?

$$2x + 3y = 6$$

$$2x + y = -2$$

- [A] -3 [B] 1 [C] 2 [D] 4

5. 080706a, P.I. A.A.10

If $a + 3b = 13$ and $a + b = 5$, the value of b is

- [A] 4 [B] 1 [C] 4.5 [D] 7

6. fall0708ia, P.I. A.A.7

The equations $5x + 2y = 48$ and $3x + 2y = 32$ represent the money collected from school concert ticket sales during two class periods. If x represents the cost for each adult ticket and y represents the cost for each student ticket, what is the cost for each adult ticket?

- [A] \$4 [B] \$20 [C] \$8 [D] \$10

[1] D

[2] D

[3] A

[4] D

[5] A

[6] C