Regents Exam Questions by Topic
SYSTEMS: Solving Linear Systems-A
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NAME:_____

1. 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] (2, 1) [B] (1, 2)

[C] (3, 0) [D] (3, 3)

2. 060716a, P.I. A.A.10
Which ordered pair satisfies the system of equations below?

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

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

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

3. 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)

4. 060824a, P.I. A.A.10
If $x + y = -10$ and $x - y = 2$, what is the value of x?

[A] -6 [B] -4 [C] 6 [D] 4

5. 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] 1 [B] 2 [C] -3 [D] 4

6. 080706a, P.I. A.A.10
If $a + 3b = 13$ and $a + b = 5$, the value of b is

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

7. 080529a, P.I. A.A.10
When solved graphically, which system of equations will have exactly one point of intersection?

[A] $y = 0.5x + 30$
$y = 0.5x - 30$

[B] $y = -x - 20$
$y = x + 17$

[C] $y = -x + 15$
$y = -x + 25$

[D] $y = \frac{3}{5}x + 12$
$y = 0.6x - 19$

[1] A

[2] D

[3] D

[4] B

[5] D

[6] A

[7] B