

Date: ___/___/_____

Period: ___

Name: _____

System of Equation Review A1 9.0

Answer each question carefully. Show your work!!!

1.
$$\begin{aligned} 9i + 3j &= 6 \\ 3i + j &= 2 \end{aligned}$$

- [A] $(i, j) = (-9, 6)$
[B] $(i, j) = (3, -7)$
[C] No solution.
[D] All real numbers

7.
$$\begin{aligned} 7g - 6h &= -7 \\ 8g + 6h &= -8 \end{aligned}$$

- [A] $(g, h) = (2, -1)$
[B] $(g, h) = (-1, 0)$
[C] $(g, h) = (0, -1)$
[D] $(g, h) = (2, 3)$

3.
$$\begin{aligned} y - 2z &= 2 \\ 4y - 10z &= 4 \end{aligned}$$

- [A] $(y, z) = (-5, -1)$
[B] $(y, z) = (6, 2)$
[C] No solution
[D] All real numbers

8.
$$\begin{aligned} 4g - h &= -6 \\ 9g - 8h &= -2 \end{aligned}$$

- [A] $(g, h) = (1, 2)$
[B] $(g, h) = (-2, -2)$
[C] No solution
[D] All real numbers

5.
$$\begin{aligned} 2g - 4h &= 2 \\ 3g - 6h &= 9 \end{aligned}$$

- [A] $(g, h) = (9, -7)$
[B] $(g, h) = (-10, 4)$
[C] No solution.
[D] All real numbers.

9.
$$\begin{aligned} 6j - 8k &= 6 \\ 5j - 7k &= 7 \end{aligned}$$

- [A] $(j, k) = (3, 3)$
[B] $(j, k) = (-7, -6)$
[C] $(j, k) = (-3, 1)$
[D] $(j, k) = (2, 4)$

7.
$$\begin{aligned} 8r - 2s &= 10 \\ 2r + s &= -5 \end{aligned}$$

- [A] $(r, s) = (3, 2)$
[B] $(r, s) = (0, -5)$
[C] $(r, s) = (-1, -2)$
[D] $(r, s) = (3, 0)$

10.
$$\begin{aligned} 3k + 7m &= 3 \\ 3k + 9m &= -3 \end{aligned}$$

- [A] $(k, m) = (9, 0)$
[B] $(k, m) = (-5, 2)$
[C] $(k, m) = (8, -3)$
[D] $(k, m) = (8, 0)$

9.
$$\begin{aligned} 3i - 2j &= 3 \\ 5i + 2j &= 5 \end{aligned}$$

- [A] $(i, j) = (1, 0)$
[B] $(i, j) = (-1, -1)$
[C] No solution
[D] All real numbers

11.
$$\begin{aligned} 3y + 3z &= 9 \\ 7y + 7z &= 0 \end{aligned}$$

- [A] $(y, z) = (-2, -8)$
[B] $(y, z) = (1, -1)$
[C] No solution.
[D] All real numbers.

11.
$$\begin{aligned} 9v + 9w &= 6 \\ 6v + 6w &= 4 \end{aligned}$$

- [A] $(v, w) = (-1, 7)$
[B] $(v, w) = (6, -1)$
[C] No solution.
[D] All real numbers

12.
$$\begin{aligned} 4x + 7y &= 1 \\ 3x - y &= 7 \end{aligned}$$

- [A] $(x, y) = (4, 0)$
[B] $(x, y) = (2, -1)$
[C] No solution
[D] All real numbers

1. D
2. B
3. B
4. B
5. C
6. B
7. B
8. C
9. A
10. C
11. D
12. B