

Algebra I Practice A.REI.B.3: Solving Linear Equations 3

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NAME: _____

Solve:

1. $5x+4 = x-7$

[A] $\frac{11}{4}$ [B] $-\frac{4}{11}$ [C] $\frac{9}{5}$ [D] $-\frac{11}{4}$

2. $6x-5 = x+3$

[A] $\frac{1}{6}$ [B] $-\frac{8}{5}$ [C] $\frac{5}{8}$ [D] $\frac{8}{5}$

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

[A] 3 [B] $-\frac{1}{3}$ [C] $\frac{11}{4}$ [D] -3

4. $6x+1 = x-5$

[A] $-\frac{6}{5}$ [B] $\frac{6}{5}$ [C] $\frac{7}{6}$ [D] $-\frac{5}{6}$

5. $4x+4 = x-3$

[A] 2 [B] $\frac{7}{3}$ [C] $-\frac{7}{3}$ [D] $-\frac{3}{7}$

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

7. $x-8 = -3x+5$

8. $x+5 = -5x-5$

9. $x+1 = -x+9$

10. $x-1 = -2x+2$

11. $x-2 = -5x+1$

12. $x+4 = -4x+9$

Solve:

13. $x - 3 = -4x - 7$

14. Compare the quantity in Column A with the quantity in Column B.

<u>Column A</u>	<u>Column B</u>
the solution of	the solution of

$$2(x - 3) = 6x \quad 3x + 2 = 5x + 6$$

- [A] The quantity in Column A is greater.
[B] The quantity in Column B is greater.
[C] The quantities are equal.
[D] The relationship cannot be determined on the basis of the information supplied.

Solve:

15. $5x - 20 = x + 4(5 + x)$

16. $6x + 10 = x + 5(3 + x)$

17. $4x + 9 = x + 3(3 + x)$

18. Which equation has no solution?

[A] $-2x + 3 = 4x + 4 - 6x$

[B] $3y + 3 = 7y - 4y + 3$

[C] $-2x + 3 = 4x + 3 - 6x$

[D] $6x + 25 = x + 5(5 + x)$

19. Which equation has no solution?

[A] $6x + 25 = x + 5(5 + x)$

[B] $4y + 3 = 9y - 5y$

[C] $-x + 3 = 5x + 3 - 6x$

[D] $4y + 3 = 9y - 5y + 3$

20. Which equation has no solution?

[A] $9y + 9 = 11y - 2y + 9$

[B] $7x + 30 = x + 6(5 + x)$

[C] $-5x + 9 = 2x + 9 - 7x$

[D] $7x - 6 = x + 6(5 + x)$

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[1] D

[2] D

[3] D

[4] A

[5] C

[6] $-\frac{10}{3}$

[7] $\frac{13}{4}$

[8] $-\frac{5}{3}$

[9] 4

[10] 1

[11] $\frac{1}{2}$

[12] 1

[13] $-\frac{4}{5}$

[14] A

[15] no solution

[16] no solution

[17] identity

[18] A

[19] B

[20] D