

NAME: _____

1. 010215a, P.I. A.A.27

What is the solution set of the equation

$$3x^2 = 48?$$

- [A] $\{4,-4\}$ [B] $\{2,8\}$
[C] $\{4,4\}$ [D] $\{-2,-8\}$

2. 010808a, P.I. A.A.27

A solution of the equation $\frac{x^2}{4} = 9$ is

- [A] 12 [B] $\frac{3}{2}$ [C] 3 [D] 6

3. 080733a, P.I. A.A.27

What is the positive solution of the equation

$$4x^2 - 36 = 0?$$

4. 080921ia, P.I. A.A.27

The solution to the equation $x^2 - 6x = 0$ is

- [A] 0, only [B] 0 and 6
[C] 6, only [D] $\pm\sqrt{6}$

5. 010727a, P.I. A.A.27

What is the solution set of the equation

$$x^2 - 5x = 0?$$

- [A] $\{5\}$ [B] $\{0,5\}$ [C] $\{0,-5\}$ [D] $\{0\}$

6. 080012a, P.I. A.A.27

The solution set for the equation

$$x^2 - 2x - 15 = 0$$
 is

- [A] $\{-5,-3\}$ [B] $\{-5,3\}$
[C] $\{5,-3\}$ [D] $\{5,3\}$

7. 060725a, P.I. A.A.27

The solution set of the equation

$$x^2 - 4x - 12 = 0$$
 is

- [A] $\{-4,3\}$ [B] $\{-2,6\}$
[C] $\{-6,2\}$ [D] $\{-3,4\}$

8. 080118a, P.I. A.A.27

What is the solution set of $m^2 - 3m - 10 = 0$?

- [A] $\{3,10\}$ [B] $\{5,-2\}$
[C] $\{3,-10\}$ [D] $\{2,-5\}$

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9. 060313a, P.I. A.A.27
What is the solution set of the equation $x^2 - 5x - 24 = 0$?
- [A] {3,8} [B] {-3,8}
[C] {3,-8} [D] {-3,-8}
10. 010520a, P.I. A.A.27
What is the solution set for the equation $x^2 - 5x + 6 = 0$?
- [A] {-2,-3} [B] {2,3}
[C] {-6,1} [D] {6,-1}
11. 060514a, P.I. A.A.27
What is the solution set of the equation $x^2 + 11x + 28 = 0$?
- [A] {-3,-4} [B] {3,4}
[C] {-7,-4} [D] {-7,4}
12. 080525a, P.I. A.A.27
The solution set for the equation $x^2 - 5x = 6$ is
- [A] {1,-6} [B] {-1,6}
[C] {-2,3} [D] {2,-3}
13. 089926a, P.I. A.A.27
Solve for x : $x^2 + 3x - 40 = 0$
14. 060229a, P.I. A.A.27
Solve for x : $x^2 + 3x - 28 = 0$
15. 010637a, P.I. A.A.27
Solve for x : $x^2 + 2x - 24 = 0$
16. 010913a, P.I. A.A.27
Which equation has the solution set {1,3}?
- [A] $x^2 + 4x - 3 = 0$ [B] $x^2 + 4x + 3 = 0$
[C] $x^2 - 4x + 3 = 0$ [D] $x^2 - 4x - 3 = 0$
17. 080825a, P.I. A.A.27
For which equation is the solution set {-5,2}?
- [A] $x^2 + 3x = -10$ [B] $x^2 - 3x + 10 = 0$
[C] $x^2 - 3x = 10$ [D] $x^2 + 3x - 10 = 0$

[1] A _____

[2] D _____

[2] 3, and appropriate work is shown, such as factoring or trial and error with at least three trials and appropriate checks.

[1] Appropriate work is shown, but one computational error is made.

or [1] Appropriate work is shown, but one conceptual error is made, such as not rejecting the negative root.

or [1] The trial-and-error method is attempted and at least six systematic trials and appropriate checks are shown, but no solution is found.

or [1] 3, but no work or fewer than three trials and appropriate checks are shown.

[0] A zero response is completely incorrect, irrelevant, or incoherent or is a correct response that was obtained by an obviously

[3] incorrect procedure.

[4] B _____

[5] B _____

[6] C _____

[7] B _____

[8] B _____

[9] B _____

[10] B _____

[11] C _____

[12] B _____

[3] -8 and 5 and appropriate work is shown, such as factoring or trial and error.

[2] The student shows correct factoring into $(x + 8)(x - 5)$ or correct use of the quadratic formula but finds only one correct value for x .

[1] Correct factoring is shown, but no values are found.

or

[1] Incorrect factoring is shown, but two appropriate values are found.

or

[1] Either -8 or 5 is arrived at by trial and error.

or

[1] -8 and 5 and no work is shown.

[0] A zero response is completely incorrect, irrelevant, or incoherent or is a correct response that was obtained by an obviously

[13] incorrect procedure.

[3] -7 and 4, and appropriate work is shown, such as factoring.

[2] Correct factoring $(x + 7)(x - 4)$ is shown, but only one correct value of x is found.

or [2] Correct factoring is shown, but the negative value of x is rejected.

[1] Correct factoring is shown, but the values of x are not found.

or [1] Incorrect factoring is shown, but appropriate values are found.

or [1] Only one value is found by trial and error.

or [1] -7 and 4, but no work is shown.

[0] A zero response is completely incorrect, irrelevant, or incoherent or is a correct response that was obtained by an obviously

[14] incorrect procedure.

[3] -6 and 4, and appropriate work is shown, such as factoring or trial and error with at least three trials and appropriate checks.

[2] Appropriate work is shown, but one computational error is made.

or [2] Appropriate work is shown, but only one correct value for x is found.

or [2] The trial-and-error method is used to find the correct solutions, but only two trials and appropriate checks are shown.

[1] Appropriate work is shown, but two or more computational errors are made.

or [1] Appropriate work is shown, but one conceptual error is made.

or [1] The equation is factored correctly, but no values are found.

or [1] The equation is factored incorrectly, but two appropriate values are found.

or [1] -6 and 4, but no work or only one trial with an appropriate check is shown.

[0] -6 or 4, but no work or only one trial with an appropriate check is shown.

or [0] A zero response is completely incorrect, irrelevant, or incoherent or is a correct response that was obtained by an

[15] obviously incorrect procedure.

[16] C

[17] D