



3.1 Puzzle Time

How Can You Get Four Suits For A Dollar?

Write the letter of each answer in the box containing the exercise number.

Solve the equation using square roots.

1. $(3x - 3)^2 = 36$

2. $x^2 = 81$

3. $2(x - 2)^2 - 8 = -4$

4. $5 - 3(2x + 1)^2 = -22$

Solve the equation by factoring.

5. $0 = x^2 + 8x + 16$

6. $x^2 - 3x = 10$

7. $x^2 - 64 = 0$

8. $4x^2 - 12 = 2x$

Find the zero(s) of the function.

9. $f(x) = 2x^2 + 7x - 4$

10. $f(x) = x^2 - 121$

Solve the equation using any method.

11. $x^2 - 7x = 0$

12. $3x^2 - 4x = 20x + 27$

13. $\frac{1}{2}(x - 1)^2 - 4 = -1$

14. $2x^2 + 5x = 5x + 50$

15. $-x^2 + 30 + 4x = -2x^2 + 14x + 6$

Answers

D. $x = -4$

U. $x = 9; x = -9$

S. $x = 6; x = 4$

Y. $x = 2 + \sqrt{2}; x = 2 - \sqrt{2}$

A. $x = 1; x = -2$

C. $x = 8; x = -8$

E. $x = 5; x = -2$

K. $x = -\frac{3}{2}; x = 2$

B. $x = 3; x = -1$

F. $x = 11; x = -11$

C. $x = 0; x = 7$

A. $x = -1; x = 9$

D. $x = 5; x = -5$

O. $x = \frac{1}{2}; x = -4$

R. $x = 1 + \sqrt{6}; x = 1 - \sqrt{6}$

1	2	3		4		5	6	7	8		9	10		11	12	13	14	15
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