



Puzzle Time

How Did The Sea Urchin Pay For His Meal?

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

Factor the polynomial.

1. $2x^2 + 4x - 16$
2. $5x^2 + 21x + 18$
3. $4x^2 - 4x - 63$
4. $6x^2 - 19x + 8$
5. $-9x^2 + 31x + 20$
6. $3x^2 - 6x - 24$
7. $28x^2 + x - 15$
8. $-36x^2 + 30x + 66$
9. $-10x^2 - 34x - 12$
10. $6x^2 - 19x - 36$

Solve the equation.

11. $4x^2 + 40x + 84 = 0$
12. $-3x^2 - 15x + 72 = 0$
13. $-15x^2 + 28x - 5 = 0$
14. $24x^2 - 47x - 21 = 0$
15. The length of a rectangular platform is 2 feet longer than three times its width. The area of the platform is 56 square inches. What are the width and the length of the platform?

Answers

N. $(7x - 5)(4x + 3)$

S. $(3x + 4)(2x - 9)$

A. $(5x + 6)(x + 3)$

W. $-(9x + 5)(x - 4)$

H. $-2(5x + 2)(x + 3)$

A. $(3x - 8)(2x - 1)$

L. $2(x + 4)(x - 2)$

D. $-6(6x - 11)(x + 1)$

R. $3(x - 4)(x + 2)$

T. $(2x - 9)(2x + 7)$

A. $\frac{1}{5}, \frac{5}{3}$ **I.** $-7, -3$

D. $4, 14$ **L.** $-\frac{3}{8}, \frac{7}{3}$

O. $-8, 3$

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