

9.2 Puzzle Time

Why Do They Call The New Dance The Elevator?

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

Write the equation in standard form.

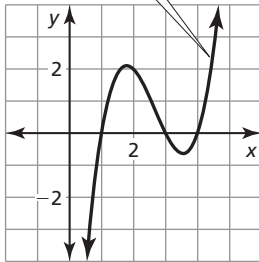
- 1. $5x^2 = 14$
- 2. $-3x^2 = 16$
- 3. $7x - 8x^2 = 6$
- 4. $9 + 10x = 12x^2$

Solve the equation by graphing.

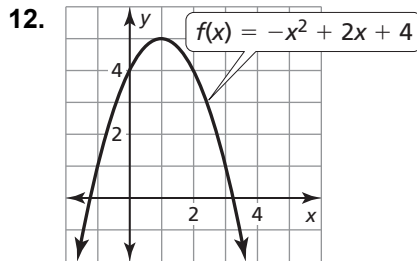
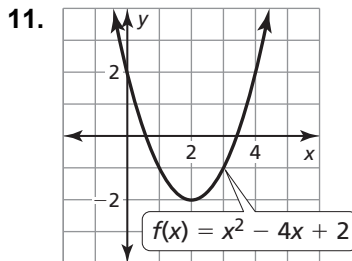
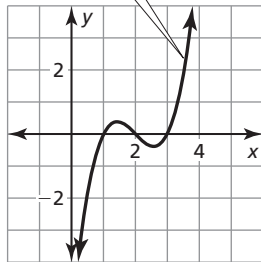
- 5. $x^2 - 6x = 0$
- 6. $x^2 - 3x + 7 = 0$
- 7. $x^2 = -8x - 16$
- 8. $-x^2 = -10x + 24$

Find the zero(s) of f . Approximate the zero(s) of f to the nearest tenth when necessary.

9. $y = (x - 1)(x^2 - 7x + 12)$



10. $y = (x - 2)(x^2 - 4x + 3)$



Answers

- S. $3x^2 + 16 = 0$
- T. $12x^2 - 10x - 9 = 0$
- N. $8x^2 - 7x + 6 = 0$
- A. $5x^2 - 14 = 0$
- E. 4, 6
- S. no solution
- H. 0.6, 3.4
- T. 0, 6
- P. 1, 2, 3
- I. -4
- O. 1, 3, 4
- S. -1.2, 3.2

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