



## 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.  $x^2 - 6x = 0$

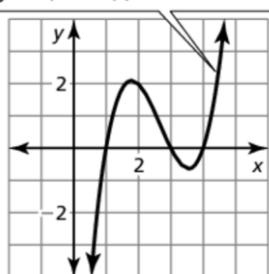
6.  $x^2 - 3x + 7 = 0$

7.  $x^2 = -8x - 16$

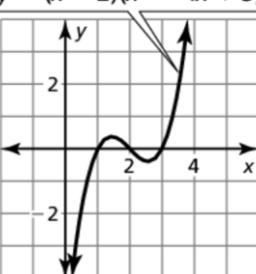
8.  $-x^2 = -10x + 24$

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

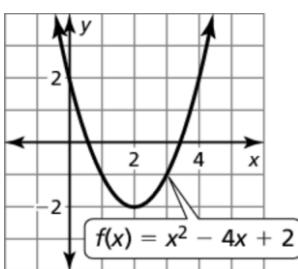
9.  $y = (x - 1)(x^2 - 7x + 12)$



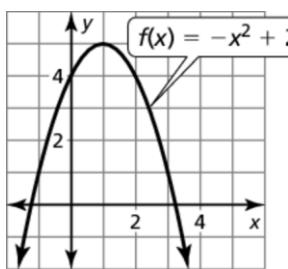
10.  $y = (x - 2)(x^2 - 4x + 3)$



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



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



#### 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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