AT HOME QUADRATICS ASSESSMENT

Questions and Answers

1. $-1 x^2 + 0x + 49 = 0$

A. X = -9 and -6

B. X = 7 and -7

C. X = 8 and 3

D. X = 7 and -3

E. X = 9 and -9

2. $-1 x^2 + 2x + 48 = 0$

A. X = -2 and 1

B. X = -1 and -7

C. X = 9 and -9

D. X = 8 and -6

E. X = 8 and -6

3. $1x^2 + 5x - 14 = 0$

A. X = -1 and 2

B. X = -1 and 2

C. X = -7 and 2

D. X = 9 and -9

E. X = 9 and -9

4. $1x^2 + 10x + 21 = 0$

A. X = -7 and -3

B. X = -7 and -3

C. X = 8 and -6

D. X = 8 and 6

E. X = 10 and 11

5. $-1\,x^2 + 3x + 28 = 0$

A. X = -6 and -8

B. X = 9 and 4

C. X = 6 and -5

D. X = -7 and -4

E. X = 7 and -4

6. What is the vertex of the following equation: $x^2 - 8x + 15 = 0$?

A. (4,1)

B. (4,-1)

C. (-4,-1)

D. (-4,1)

7. What is the axis of symmetry and range of the following function: $x^2 - 8x + 15 = 0$?

A. Axis: x=4 ; Range: (-1,infinity)

B. Axis: x=-4 ; Range: (-1, infinity)

C. Axis: x=-1 ; Range: (4, infinity)

D. Axis: x=-1 ; Range: (-4, infinity)

8. What is the vertex of the following equation: $-x^2 - 9x - 8 = 0$?

A. (1,-9)

B. (-1,-9)

C. (-1,9)

D. (1,9)

9. What is the range of the following function: $-x^2 + 2x + 8 = 0$?

A. (infinity, 9)

B. (-infinity, infinity)

C. (9, infinity)

D. (-9, infinity)

E. (-infinity, 9)

10. What is the domain of the following function: $-x^2 + 2x + 8 = 0$?

A. (1,9)

B. (-infinity,infinity)

C. (infinity,9)

D. (1, infinity)

E. (9,infinity)