

Quadratic Equations Worksheet

Name: _____ Date: _____

A. Solve by Factoring

17. $x^2+5x+6=0$

18. $x^2-7x+12=0$

19. $x^2-x-12=0$

20. $x^2+2x-15=0$

21. $2x^2+7x+3=0$

B. Solve Using the Quadratic Formula

17. $x^2+4x-5=0$

18. $2x^2-3x-2=0$

19. $3x^2+2x-1=0$

20. $x^2-6x+2=0$

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

C. Complete the Square

17. $x^2+6x+5=0$

18. $x^2-8x+7=0$

19. $x^2+4x-12=0$

D. Identify the Discriminant

Find the discriminant and state the number of real solutions.

17. $x^2+5x+6=0$

18. $x^2-4x+4=0$

19. $x^2+2x+5=0$

E. Word Problems

17. The product of two consecutive positive integers is 72. Find the integers.

18. A rectangular garden has an area of 48 m². Its length is 2 m more than its width. Find its dimensions.

19. A ball's height is modeled by

20. $h(t)=-5t^2+20t+1$.

21.

Find the time when the ball reaches the ground.