

# Chapter 3 Test Review

Problems 1-27

Solve the equation.

1.  $x^2 - 16 = 0$   
 $(x-4)(x+4) = 0$   
 $x = 4, -4$

2.  $x^2 - 9 = 0$   
 $(x-3)(x+3) = 0$   
 $x = 3, -3$

3.  $x^2 - 25 = 0$   
 $(x-5)(x+5) = 0$   
 $x = 5, -5$

4.  $x^2 - 36 = 0$   
 $(x-6)(x+6) = 0$   
 $x = 6, -6$

5.  $x^2 - 49 = 0$   
 $(x-7)(x+7) = 0$   
 $x = 7, -7$

6.  $x^2 - 100 = 0$   
 $(x-10)(x+10) = 0$   
 $x = 10, -10$   
**No Solutions**

7.  $x^2 - 144 = 0$   
 $(x-12)(x+12) = 0$   
 $x = 12, -12$   
 $x = 12$

8.  $x^2 - 81 = 0$   
 $(x-9)(x+9) = 0$   
 $x = 9, -9$   
 $x = 9$

9.  $x^2 - 64 = 0$   
 $(x-8)(x+8) = 0$   
 $x = 8, -8$

10.  $x^2 - 25 = 0$   
 $(x-5)(x+5) = 0$   
 $x = 5, -5$

11.  $x^2 - 36 = 0$   
 $(x-6)(x+6) = 0$   
 $x = 6, -6$

12.  $x^2 - 49 = 0$   
 $(x-7)(x+7) = 0$   
 $x = 7, -7$

13.  $x^2 - 100 = 0$   
 $(x-10)(x+10) = 0$   
 $x = 10, -10$   
 $x = 10$

14.  $x^2 - 144 = 0$   
 $(x-12)(x+12) = 0$   
 $x = 12, -12$   
 $x = 12$

15.  $x^2 - 81 = 0$   
 $(x-9)(x+9) = 0$   
 $x = 9, -9$   
 $x = 9$

16.  $x^2 - 49 = 0$   
 $(x-7)(x+7) = 0$   
 $x = 7, -7$   
**No Solutions**

17.  $x^2 - 16 = 0$   
 $(x-4)(x+4) = 0$   
 $x = 4, -4$

18.  $x^2 - 9 = 0$   
 $(x-3)(x+3) = 0$   
 $x = 3, -3$

19.  $x^2 - 25 = 0$   
 $(x-5)(x+5) = 0$   
 $x = 5, -5$

20.  $x^2 - 36 = 0$   
 $(x-6)(x+6) = 0$   
 $x = 6, -6$   
 $x = 6$

21.  $x^2 - 49 = 0$   
 $(x-7)(x+7) = 0$   
 $x = 7, -7$   
 $x = 7$

22.  $x^2 - 100 = 0$   
 $(x-10)(x+10) = 0$   
 $x = 10, -10$   
 $x = 10$

23.  $x^2 - 144 = 0$   
 $(x-12)(x+12) = 0$   
 $x = 12, -12$   
 $x = 12$

# Answers

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