

Lessons 14.1 - 14.2
Quiz - Form B

Unit 14

Solve:

1. $\sqrt{3x - 20} = 3$

2. $\sqrt{x + 5} + 3 = 6$

3. $\sqrt{6x + 5} = 2$

4. $(x + 1)^2 = 64$

5. $(x - 3)^2 = 32$

6. $4(3x - 3)^2 - 30 = 42$

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Unit 14

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2. $\sqrt{x + 5} + 3 = 6$

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5. $(x - 3)^2 = 32$

6. $4(3x - 3)^2 - 30 = 42$

Lessons 14.3 - 14.4
Quiz - Form A

Unit 14

Complete the square to solve:

1. $x^2 + 2x = 8$

2. $x^2 - 5x - 18 = 0$

Solve by using the Quadratic Formula:

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

4. $2x^2 - 9x - 5 = 0$

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

Lessons 14.3 - 14.4
Quiz - Form B

Unit 14

Complete the square to solve:

1. $x^2 + 2x = 15$

2. $x^2 - 6x - 11 = 0$

Solve by using the Quadratic Formula:

3. $x^2 - 7x - 18 = 0$

4. $3x^2 - 2x - 1 = 0$

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

Lessons 14.5 - 14.6
Quiz - Form B

Unit 14

Solve:

1. The length of a rectangle is one more than twice the width. The area is 21m^2 . Find the length and width.
2. The base of a triangle is 3cm more than the height. The area is 5cm^2 . Find the base and height.
3. Find the coordinates of the turning point of $y = x^2 + 6x + 3$.
4. Draw the graph of $y = x^2 - 3x + 2$. Give the coordinates of the turning point and the x-intercepts.

5. Find the minimum value of y for $y = x^2 + 4x - 5$.

Solve:

1. $\sqrt{5x} = 5$

4. $(z - 1)^2 = 36$

2. $\sqrt{3y - 3} + 2 = 8$

5. $(s + 3)^2 = 27$

3. $2x^2 = 32$

Solve by completing the square:

6. $x^2 - 2x = 15$

7. $p^2 + 8p = 2$

8. $t^2 + 4t = 8$

Solve by using the Quadratic Formula:

9. $x^2 - 5x - 14 = 0$

11. $x^2 + 3x - 5 = 0$

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

12. $2x^2 - 3x + 1 = 0$

Solve:

13. If 2 is added to a number, the square of the result is 49. Find the number.

14. The width of a rectangle is 6m less than the length. The area is 27m^2 . Find the length and width.

15. The height of a triangle is twice the base. The area is 25cm^2 . Find the base and height.

16. Determine the coordinates of the turning point of the parabola $y = x^2 + 4x - 21$.

17. Graph the parabola: $y = 2x^2 - 2x - 4$

18. Find the minimum value of y if $y = 2x^2 - 4x + 3$.

Solve:

19. $\sqrt{3x + 4} = \sqrt{x} + 2$

20. $3(4y - 2)^2 + 3 = 48$

Solve:

1. $\sqrt{3x} = 3$

4. $(x + 3)^2 = 49$

2. $\sqrt{4y - 3} - 1 = 4$

5. $(x - 1)^2 = 12$

3. $3x^2 = 27$

Solve by completing the square:

6. $x^2 + 4x = 5$

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

8. $x^2 + 4x = 2$

Solve by using the Quadratic Formula:

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

11. $x^2 - 4x - 1 = 0$

10. $x^2 - 13x + 42 = 0$

12. $2x^2 + 5x - 3 = 0$

Solve:

13. If 3 is subtracted from a number, the square of the result is 64. Find the number.

14. The width of a rectangle is 2cm less than the length. The area is 15cm^2 . Find the length and width.

15. The base of a triangle is 3 times the height. The area is 24cm^2 . Find the base and height.

16. Determine the coordinates of the turning point of the parabola $y = x^2 - 2x - 35$.

17. Graph the parabola: $y = x^2 - 4x + 3$.

18. Find the minimum value of y if $y = 2x^2 - 4x - 3$.

Solve:

19. $\sqrt{2x + 1} - 2 = \sqrt{x}$

20. $2(3x - 1)^2 - 3 = 21$