

Answer Keys

Chapter 1 Quadratic and Fractional Equations

Worksheet 1A: Solving quadratic equations by completing the square

- $(x+4)^2 - 16$
 - $(x-3)^2 - 9$
 - $(x+2)^2 - 7$
 - $\left(x - \frac{5}{2}\right)^2 + \frac{3}{4}$
 - $\left(x + \frac{1}{9}\right)^2 + \frac{80}{81}$
 - $(x-0.15)^2 - 0.2725$
- $-(x-5)^2 + 25$
 - $-(x+2)^2 + 4$
 - $-\left(x + \frac{1}{2}\right)^2 + \frac{1}{4}$
 - $-\left(x - \frac{9}{2}\right)^2 + \frac{85}{4}$
- 1.16 or -5.16
 - $1\frac{2}{3}$ or -1
- 1 or -7
 - 10.83 or -0.83
 - 0.03 or -0.17
 - 0.55 or -0.15
 - 1.75 or -4.75
 - 5.46 or -1.46
- $p = -6, q = -11$
 - 9.32 or 2.68
- $a = 4, b = -23$
 - 0.80 or -8.80
- $a = -3, b = -18$
 - 7.24 or -1.24
- 0.149 or -20.1
 - 2

Worksheet 1B: Solving quadratic equations using formula

- 0.697 or -4.30
 - 1.45 or -0.115
 - No real solutions
 - 0.557 or -12.6
 - 21.2 or -1.18
 - No real solutions
 - No real solutions
 - 0.0627 or -1.05
- 5 or 1
 - 5 or 1
- 9.89 or 0.606
 - 4.95 or 0.303
- 1.84 or -1.09

- $2x^2 + 10x - 1 = 0$
 - $x^2 + 6x + 9 = 0$
 - $5x^2 - x + 4 = 0$
- $x^2 - 5x + 4 = 0; x = 1$ or 4
 - $x^2 - 8x = 10; x = 9.10$ or -1.10
 - $10x^2 + 3x - 2 = 0; 0.322$ or -0.622
- 1 or 1.6 or 2.17

Worksheet 1C: Solving fractional equations reducible to quadratic equations

- $2\frac{1}{4}$ or $-1\frac{3}{4}$
 - 1 or 10
 - 3.15 or -3.65
 - $\frac{2}{3}$ or $-\frac{1}{2}$
 - 5.90 or 3.10
 - 1.18 or -4.78
 - 1 or $-2\frac{33}{46}$
 - 3.51 or -4.01
 - $-7\frac{1}{2}$ or -1
 - 0.617 or -0.450
- 6.27 or -1.27
 - 39.4
- $\frac{77}{18}$
- Neither
- $a = -\frac{1}{5}, b = 6$
 - 1.8

Worksheet 1D: Solving quadratic equations by graphical method

- 16
 - 1.4 or 1.9
- 8, -2, 2, 4, 4, 2, -2
 - 0.6 or 3.6
- 1.5
 - 1.4
- 2.5 or 0.50
 - 2.4 or 0.70
- 1.4 or 1.1
 - 2, $x = -0.9$
- No
 - 4
- $y = x^2 - 4x - 5$ and $y = x - 1; y = x^2 - x - 7$ and $y = 4x - 3$

Worksheet 1E: Sketching graphs of quadratic functions

- $3x(x+4)$
- $x = 4$
 - (4, -25)
- Maximum point
 - (0, 25)
 - $x = 0$
- $y = (x+3)^2 + 2$
 - $y = -2(x+4)(x+2)$

- Maximum point
 - $h = 2, k = 0.5$
- $2 + (x-3)^2$
 - (3, 2)
- $(x-2.5)^2 - 1.25$
 - 1.25
 - $x = 2.5$
 - No
- No
 - $y = -\frac{4}{9}(x+1)^2 + 4, (-4, 0)$

Worksheet 1F: Applications of quadratic equations and functions in real-world contexts

- 36
- 171 km/h
- 32 000 mm²
 - 34.7 mm
- Width = $(x-4)$ cm, Height = $(x+1)$ cm
 - 10.07 or -8.07
 - 678 cm²
- $\frac{1800}{x}$ km/h
 - $\frac{1800}{x-5}$ km/h
 - 36.13 or -31.13
 - 66.9 km/h
- $\frac{3200}{x}$
 - $\frac{3200}{x-8}$
 - 41.92 or -33.92
 - 42 min 10 s

Review Exercise 1

- B $y = 3x^2$
 - C $y = 3 - 3x^2$
 - A $y = \frac{1}{3}x^2 + 1$
 - E $y = 3 - 2x - x^2$
- 4913
- $\frac{1\ 200\ 000}{x}$
 - $\frac{1\ 200\ 000}{x+20\ 000}$
 - 1255 or -21 255
 - 0.638 m²

Chapter 2 Simultaneous Linear Inequalities

Worksheet 2A: Solving linear inequalities

- $x \leq -3$
 - $x > \frac{3}{4}$
 - $x < 1\frac{2}{7}$
 - $x \geq -1$
- $x \leq -8$
 - $x > -2$
 - $x \geq 1\frac{19}{25}$
 - $x > -4\frac{17}{24}$
- $x > 0$
 - $x \geq 1\frac{1}{44}$

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