

### Station 3: Solving Quadratic Equations

#### Part A: Complete each problem by FACTORING.

1. Find the real zeros of  $f(x) = 2x^2 + 15x + 18$ .

$$0 = 2x^2 + 15x + 18$$

$$0 = (2x + 3)(x + 6)$$

$$x = -\frac{3}{2} \text{ or } -6$$

3. Solve  $9x^2 - 10x + 5 = 0$ .

$$9x^2 - 10x - 5 = 0$$

$$(3x - 5)(3x + 1) = 0$$

$$x = \frac{5}{3} \text{ or } -\frac{1}{3}$$

2. Solve  $245x^2 - 405 = 0$ .

$$+1x^2 - 91 = 0$$

$$(7x + 9)(7x - 9) = 0$$

$$x = \pm \frac{9}{7}$$

4. A box has a base that measures 3 inches by 5 inches, and a height of 11 inches. Increasing each dimension of the base by the same amount causes the volume of the box to increase by 528 cubic inches.

- a. Using  $x$  as the amount that each dimension of the base is increased by, write an expression for the volume of the box. Let  $x$  be the increase in each dimension of the base in inches.

$$11(3+x)(5+x)$$

- b. Use the original measurements and the expression you wrote in part (a) to write an equation that can be used to find the amount by which each dimension of the base increased.

$$(3)(5)(11) + 528 = 11(3+x)(5+x)$$

- c. Solve the equation in part (b) and interpret the solutions in the context of the problem.

$$165 + 528 = 11(x+3)(x+5)$$

$$693 = 11(x^2 + 8x + 15)$$

$$63 = x^2 + 8x + 15$$

$$x^2 + 8x - 48 = 0$$

$$(x+12)(x-4) = 0$$

$$x = -12 \text{ or } 4$$

Each dimension of the base is increased by 4 in.

#### Part B: Complete each problem.

5. Consider  $9x^2 - 12x + 9 = -50$ .

- a. Determine how many and what type of solutions the equation has.

$$b^2 - 4ac = (-12)^2 - 4(9)(9) = 144 - (36)(9) < 0$$

2 imaginary solutions

- b. Find those solutions by completing the square.

$$9x^2 - 12x + 9 = -50$$

$$9x^2 - 12x = -59$$

$$x^2 - \frac{4}{3}x = -\frac{59}{9}$$

$$x^2 - \frac{4}{3}x + \frac{16}{9} = -\frac{59}{9} + \frac{16}{9}$$

$$(x - \frac{2}{3})^2 = -\frac{43}{9}$$

$$x - \frac{2}{3} = \pm \frac{\sqrt{43}}{3}$$

$$x = \frac{2}{3} \pm \frac{\sqrt{43}}{3}$$

6. A rocket is shot into the air from a 168-foot-high platform with an initial velocity of 88 feet per second.

- a. Use the quadratic formula to determine how much time the rocket is in the air before landing at ground level.

$$h(t) = -16t^2 + 88t + 168$$

$$t = \frac{-88 \pm \sqrt{88^2 - 4(-16)(168)}}{2(-16)} = -1.5 \text{ or } 7$$

$$h(t) = -16t^2 + 88t + 168$$

the rocket landed after 7 seconds

- b. Could the factoring method have been used to answer the question above? Explain.

Yes, because solutions are rational

# E2020 Geometry Answers

**Francesco Calabrò, Lucia Della  
Spina, Carmelina Bevilacqua**



**E2020 Geometry Answers:**

New Metropolitan Perspectives Francesco Calabrò, Lucia Della Spina, Carmelina Bevilacqua, 2018-05-19 This book explores the role of cities and the urban rural linkages in spurring innovation embedded in spatial planning strategic and economic planning and decision support systems In particular the contributions examine the complexity of the current transitional phase towards achieving smart inclusive and sustainable growth and investigate the post 2020 UE cohesion policy The main topics include Innovation dynamics and smart cities Urban regeneration community led and PPP Inland and urban area development Mobility accessibility infrastructures Heritage landscape and Identity and Risk management Environment and Energy The book includes a selection of articles accepted for presentation and discussion at the 3rd International Symposium New Metropolitan Perspectives Isth2020 held at the University of Reggio Calabria Italy on 22 25 May 2018 The symposium which addressed the challenge of local knowledge and innovation dynamics towards territory attractiveness hosted the final event of the MAPS LED project under Horizon2020 MSCA RISE

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