

# CHAPTER 4

## Polynomial Equations and Inequalities

### Getting Started, pp. 194–195

1. a)  $5x - 7 = -3x + 17$

$$5x + 3x = 17 + 7$$

$$8x = 24$$

$$x = 3$$

b)  $12x - 9 = 6x = 5 + 3x + 1$

$$12x - 6x - 3x = 5 + 1 + 9$$

$$3x = 15$$

$$x = 5$$

c)  $2(3x - 5) = -4(3x - 2)$

$$6x - 10 = -12x + 8$$

$$6x + 12x = 8 + 10$$

$$18x = 18$$

$$x = 1$$

d)  $\frac{2x + 5}{3} = 7 - \frac{x}{4}$

$$12\left(\frac{2x + 5}{3} = 7 - \frac{x}{4}\right)$$

$$4(2x + 5) = 84 - 3x$$

$$8x + 20 = 84 - 3x$$

$$8x + 3x = 84 - 20$$

$$11x = 64$$

$$x = \frac{64}{11}$$

2. a)  $x^3 + x^2 - 30x = x(x^2 + x - 30)$   

$$= x(x + 6)(x - 5)$$

b)  $x^2 - 64 = (x - 4)(x^2 + 4x + 16)$

c)  $24x^2 + 81x = 3x(8x^2 + 27)$   

$$= 3x(2x + 3)(4x^2 - 6x + 9)$$

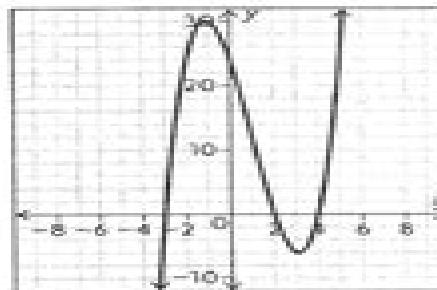
d)  $2x^3 + 7x^2 - 18x - 63$   

$$= x^2(2x + 7) - 9(2x + 7)$$

$$= (x^2 - 9)(2x + 7)$$

$$= (x + 3)(x - 3)(2x + 7)$$

3. a)



b)



4. The graph crosses the  $x$ -axis at  $x = -2$  and at  $x = 5$ . The roots of the equation are  $-2$  and  $5$ .

5. a)  $2x^2 = 18$

$$x^2 = 9$$

$$x = \pm \sqrt{9}$$

$$x = \pm 3$$

The roots are  $3$  and  $-3$ .

b)  $(x^2 + 8x - 20) = 0$

$$(x + 10)(x - 2) = 0$$

$$(x + 10) = 0 \text{ and } (x - 2) = 0$$

$$x = -10, 2$$

The roots are  $-10$  and  $2$ .

c)  $6x^2 + 11x + 10 = 0$

$$6x^2 + 15x + 4x + 10 = 0$$

$$3x(2x + 5) + 2(2x + 5) = 0$$

$$(3x + 2)(2x + 5) = 0$$

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**Hope Viner Samborn**

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**Instructor's Manual with Abbreviated Solutions to Accompany University Physics** Alvin Hudson,1982

**Instructor's Solutions Manual for Kaufmann's College Algebra, Fourth Edition** Cheryl V. Cantwell,1999

**Solutions Manual and Teaching Guide with Tests** Janet Horne,Sylvia Hearing,2001-08-07 **Resources in**

**Education** ,1997-10 *Foundations and Methods of Stochastic Simulation* Barry L. Nelson,Linda Pei,2021-11-10 This graduate level textbook covers modelling programming and analysis of stochastic computer simulation experiments including the mathematical and statistical foundations of simulation and why it works The book is rigorous and complete but concise and accessible providing all necessary background material Object oriented programming of simulations is illustrated in Python while the majority of the book is programming language independent In addition to covering the foundations of simulation and simulation programming for applications the text prepares readers to use simulation in their research A solutions manual for end of chapter exercises is available for instructors *The Answer to Anger* June Hunt,2013 Originally published Keeping your cool when your anger is hot 2009 **The Meaning of the Moral Life** Warren Nelson Nevius,1930

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