

**Chapter 5, Test Form A**

1.  $-3x^2y + 4x^2$

2.  $5x^3 - 4x^2 - 6x - 6$

3.  $-25$

4.  $2$

5.  $3x^3 - 2x^2$

6.  $12a^3b^5$

7.  $4 - 9x^2$

8.  $x^3 - 64$

9.  $(3x+1)(2x-3)$

10.  $3x(x-2)(x+2)$

11.  $(2x-1)(x^2+5)$

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

13.  $(4x+3)(16x^2-12x+9)$

14. Degree = 3; Leading coefficient =  $-2$

15.  $9s^4 - 12s^2t^3 + 4t^6$

16.  $(x+4)(x-6)$

17.  $x(x+2) = x^2 + 2x$

18.  $0, 3$

19.  $1, \frac{3}{2}$

20.  $-2, 0, 2$

**Chapter 5, Test Form B**

1.  $16y^2 - 4x^2y$

2.  $-4x^3 - 4x^2 - x + 1$

3.  $-10$

4.  $-2$

5.  $6x^3 - 4x$

6.  $10x^4y^6$

7.  $9x^2 - 25$

8.  $8x^3 + 1$

9.  $(2x+1)(4x-3)$

10.  $4x^2(x-1)(x+1)$

11.  $(x+3)(x^2+4)$

12.  $(4x+3)^2$

13.  $(5x-3)(25x^2+15x+9)$

14. Degree = 5; Leading coefficient = 4

15.  $9a^4 + 6a^2b^4 + b^8$

16.  $(x+6)(x-8)$

17.  $x(x+1)(x+2) = x^3 + 3x^2 + 2x$

18. 0, 5

19.  $-2, -\frac{1}{2}$

20.  $-1, 0, 1$

**Chapter 5, Test Form C**

1.  $-2.5x + 4.6y^2$

2.  $2.7x^3 + 1.3x^2 - 8.6x + 1.7$

3.  $51.4^\circ F$

4. 0

5.  $x^2 - 5x$

6.  $\frac{1}{3}x^2$  or  $\frac{x^2}{3}$

7.  $1 - \frac{x}{50} + \frac{x^2}{10,000}$

8.  $x^3 + 6x^2 + 8x$

9.  $(3x + 4)(2x - 1)$

10.  $2x(x - 3)(x + 3)$

11.  $(2x - 3)(x^2 + 1)$

12.  $(2x + 7)^2$

13.  $(2y + 5)(4y^2 - 10y + 25)$

14. Degree = 2; Leading coefficient = -16

15.  $16u^6 + 8u^3v^5 + v^{10}$

16.  $(x + 1)(x - 5)$

17. 7, 9

18. 0, 3

19.  $x(x + 5) = 126$ ; 9 inches by 14 inches

20. 0 sec, 6 sec

**Chapter 5, Test Form D**

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|--------|---------|---------|---------|
| 1. (d) | 6. (d)  | 11. (c) | 16. (c) |
| 2. (d) | 7. (b)  | 12. (b) | 17. (a) |
| 3. (b) | 8. (d)  | 13. (c) | 18. (a) |
| 4. (a) | 9. (b)  | 14. (a) | 19. (a) |
| 5. (c) | 10. (d) | 15. (c) | 20. (d) |