CHAPTER TEST

1. $(4t + 3)^2$ [5.6A]   **2.** $-18r^2s^2 + 12rs^3 + 18rs^2$ [5.3A]   **3.** -3 [5.2A]   **4.** $(3x - 2)(9x^2 + 6x + 4)$ [5.6B]

5. $(4x - 5)(4x + 5)$ [5.6A]   **6.** $6t^5 - 8t^4 - 15t^3 + 22t^2 - 5$ [5.3B]   **7.** $35x^2 - 55x$ [5.3A]

8. $3x(2x - 3)(2x + 5)$ [5.6D]   **9.** $-1, -\dfrac{1}{6},$ and 1 [5.7A]   **10.** $2x^3 - 4x^2 + 6x - 14$ [5.2B]

11. 5.01×10^{-7} [5.1C]   **12.** $2x + 1 + \dfrac{4}{7x - 3}$ [5.4A]   **13.** $49 - 25x^2$ [5.3C]   **14.** $(2a^2 - 5)(3a^2 + 1)$ [5.6C]

15. $6a^2 - 13ab - 28b^2$ [5.3B]   **16.** $(3x^2 + 4)(x - 3)(x + 3)$ [5.6D]   **17.** $64a^7b^7$ [5.1A]   **18.** $-\dfrac{1}{3}$ and $\dfrac{1}{2}$ [5.7A]

19. -8 [5.4C]   **20.** $\dfrac{2b^7}{a^{10}}$ [5.1B]   **21.** $x^2 - 5x + 10 - \dfrac{23}{x + 3}$ [5.4A/5.4B]   **22.** $(3x - 4)(2x - 3)$ [5.5D]

23. $(3x - 2)(2x - a)$ [5.5B]   **24.** There are 6.048×10^5 s in one week. [5.1D]   **25.** The arrow will be 64 ft above the ground after 1 s and after 2 s. [5.7B]   **26.** The area is $(10x^2 - 3x - 1)$ ft^2. [5.3D]