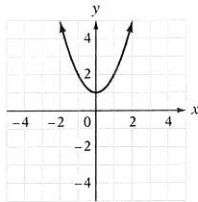## CHAPTER REVIEW

1. $6a^2b(3a^3b - 2ab^2 + 5)$ [5.5A]　**2.** $5x + 4 + \dfrac{6}{3x - 2}$ [5.4A]　**3.** $144x^2y^{10}z^{14}$ [5.1B]

4. $(a + 2b)(2x - 3y)$ [5.5B]　**5.** $-(x - 4)(x + 3)$ [5.5C]　**6.** 1 [5.4C]　**7.** $4x^2 - 8xy + 5y^2$ [5.2B]

8. $(6x + 5)(4x + 3)$ [5.5D]　**9.** $(2x + 3y)^2$ [5.6A]　**10.** $-6a^3b^6$ [5.1A]　**11.** $(4a - 3b)(16a^2 + 12ab + 9b^2)$ [5.6B]

12. $4x^2 + 3x - 8 + \dfrac{50}{x + 6}$ [5.4A/5.4B]　**13.** -7 [5.2A]　**14.** $(x - 8)(x + 5)$ [5.5C]　**15.** $(xy + 3)(xy - 3)$ [5.6A]

16. $12x^5y^3 + 8x^3y^2 - 28x^2y^4$ [5.3A]　**17.** $(x^n - 6)^2$ [5.6A]　**18.** $\dfrac{5}{2}$ and 4 [5.7A]　**19.** $33x^2 + 24x$ [5.3A]

20. $3a^2(a^2 + 1)(a^2 - 6)$ [5.6D]　**21.** $16x^2 - 24xy + 9y^2$ [5.3C]　**22.** $x^3 + 4x^2 + 16x + 64 + \dfrac{252}{x - 4}$ [5.4A/5.4B]

23. $(3x^2 + 2)(5x^2 - 3)$ [5.6C]　**24.** $\dfrac{c^{10}}{2b^{17}}$ [5.1B]　**25.** $6x^3 - 29x^2 + 14x + 24$ [5.3B]

26. $(7x^2y^2 + 3)(3x^2y^2 + 2)$ [5.6C]　**27.** $1, 4,$ and -4 [5.7A]　**28.** $25a^2 - 4b^2$ [5.3C]　**29.** 0.00254 [5.1C]

30. $(3x - 2)(2x - 9)$ [5.5D]   **31.**

[5.2A]   **32a.** 3   **b.** 8   **c.** 5   [5.2A]

33. The mass of the moon is 8.103×10^{19} tons.   [5.1D] The Great Galaxy of Andromeda is 1.291224×10^{19} mi from Earth.   [5.1D]

34. The number is -8 or 7.   [5.7B]   **35.** The Great Galaxy of Andromeda is 1.291224×10^{19} mi from Earth.   [5.1D]

36. The area of the rectangle is $(10x^2 - 29x - 21) \, \text{cm}^2$.   [5.3D]