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Algebra 2 Assignment 21

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p293 9. $\sqrt{80} = \sqrt{4 \cdot 20} = \sqrt{4 \cdot 4 \cdot 5} = 4\sqrt{5}$

11. $\sqrt[3]{64x^6y^3} = \sqrt[3]{4 \cdot 4 \cdot 4 \cdot x^2 \cdot x^2 \cdot x^2 \cdot y \cdot y \cdot y} = 4x^2y$

13. $(7\sqrt{6})(-3\sqrt{10}) = -21\sqrt{60} = -21\sqrt{4 \cdot 15} = -21(2)\sqrt{15} = -42\sqrt{15}$

19. $5\sqrt[3]{135} - 2\sqrt[3]{81} = 5(3)\sqrt[3]{5} - 2(3)\sqrt[3]{3} = 15\sqrt[3]{5} - 6\sqrt[3]{3}$

23. $\sqrt{32} = \sqrt{16 \cdot 2} = 4\sqrt{2}$

25. $\sqrt[3]{16} = \sqrt[3]{8 \cdot 2} = 2\sqrt[3]{2}$

27. $\sqrt[3]{32} = \sqrt[3]{8 \cdot 4} = 2\sqrt[3]{4}$

29. $\sqrt{y^3} = \sqrt{y^2 \cdot y} = y\sqrt{y}$

31. $5\sqrt{3} - 4\sqrt{3} = \sqrt{3}$

33. $\sqrt{90x^3y^4} = \sqrt{9 \cdot 10 \cdot x^2 \cdot x \cdot y^4} = 3xy^2\sqrt{10x}$

35. $(-3\sqrt{24})(5\sqrt{20}) = -15\sqrt{24 \cdot 20} = -15(4)\sqrt{30} = -60\sqrt{30}$

37. $(4\sqrt{18})(2\sqrt{14}) = 8\sqrt{18 \cdot 14} = 8 \cdot 3 \cdot 2\sqrt{7} = 48\sqrt{7}$

39. $\sqrt[3]{40} - 2\sqrt[3]{5} = 2\sqrt[3]{5} - 2\sqrt[3]{5} = 0$

43. $8\sqrt[3]{2x} + 3\sqrt[3]{2x} - 8\sqrt[3]{2x} = 3\sqrt[3]{2x}$

49. $\sqrt{98} - \sqrt{72} + \sqrt{32} = 7\sqrt{2} - 6\sqrt{2} + 4\sqrt{2} = 5\sqrt{2}$

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