

The deadline for all homework assignments is the one specified in Archie before 11:59 pm. As discussed in class, It must be correctly uploaded in order to be graded. Show all your work and justifications.

For Exercises 31–50, solve the equation.

$$31. \sqrt{2x - 4} = 6 \quad \{20\}$$

$$34. \sqrt{2n + 29} + 3 = n \quad \{10\}; \text{The value } 2 \text{ does not check.}$$

$$37. \sqrt[4]{5y - 3} - \sqrt[4]{2y + 1} = 0 \quad \left\{ \frac{4}{3} \right\}$$

$$40. \sqrt{d + 4} - \sqrt{6 + 2d} = -1$$

$$43. \text{a. } m^{3/4} = 5 \quad \{5^{4/3}\} \quad \text{b. } m^{2/3} = 5 \quad \{\pm 5^{3/2}\}$$

$$46. 4(y - 3)^{3/4} = 20 \quad \{5^{1/3} + 3\}$$

$$49. (2v + 7)^{1/3} - (v - 3)^{1/3} = 0 \quad \{-10\}$$

$$33. \sqrt{m + 18} + 2 = m$$

$$36. -3\sqrt[5]{4x - 1} + 2 = 8 \quad \{7\}; \text{The value } -2 \text{ does not check.}$$

$$39. \sqrt{8 - p} - \sqrt{p + 5} = 1 \quad \left\{ -\frac{31}{4} \right\}$$

$$42. \sqrt{k - 2} = \sqrt{2k + 3} - 2 \quad \{-1\}; \text{The value } 4 \text{ does not check.}$$

$$45. 3(t + 2)^{5/6} = 21 \quad \{3, 11\}$$

$$48. 5t^{2/3} = \frac{1}{5} \quad \left\{ \pm \frac{1}{125} \right\}$$

$$32. \sqrt{3x + 1} = 11 \quad \{40\}$$

$$35. -4\sqrt[3]{2x - 5} + 6 = 10 \quad \{2\}$$

$$38. \sqrt[6]{y + 7} - \sqrt[6]{4y + 5} = 0 \quad \left\{ \frac{2}{3} \right\}$$

$$41. 3 - \sqrt{y + 3} = \sqrt{2 - y} \quad \{-2, 11\}$$

$$44. \text{a. } n^{5/6} = 3 \quad \{3^{6/5}\} \quad \text{b. } n^{4/5} = 3 \quad \{\pm 3^{5/4}\}$$

$$47. 2p^{4/5} = \frac{1}{8} \quad \left\{ \pm \frac{1}{32} \right\}$$

$$50. (5u - 6)^{1/5} - (3u + 1)^{1/5} = 0 \quad \left\{ \frac{7}{2} \right\}$$