

3.4 Exponential and Logarithmic Equations

Name:

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P 30. Solve

$$e^{2x} = e^{x^2-8}$$

P 34. Solve

$$2(5^x) = 32$$

P 38. Solve

$$6^x + 10 = 47$$

P 62. Solve

$$e^{2x} + 9e^x + 36 = 0$$

P 64. Solve

$$\frac{400}{1 + e^{-x}} = 350$$

P 70. Solve

$$\left(16 - \frac{0.878}{26}\right)^{3t} = 30$$

P 84. Solve

$$\ln x + 1 = 0$$

P 95. Solve

$$-2 + 2 \ln 3x = 17$$

P 103. Solve

$$\ln(x + 5) = \ln(x - 1) - \ln(x + 1)$$

P 112. Solve

$$\log 4x - \log(12 + \sqrt{x}) = 2$$