

3.4 Solving Logarithmic and Exponential Equations

Solve:

Ex. 1 $2 \log_5 x = \log_5 9$

$$\boxed{\text{Ex. 2}} \log_4(x + 3) + \log_4(2 - x) = 1$$

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$$\boxed{\text{Ex. 3}} \quad 2^x = 5$$

$$\boxed{\text{Ex. 4}} \quad 8 \cdot 3^x = 5$$

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Ex. 5

$$5^{x-2} = 3^{3x+2}$$

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$$\boxed{\text{Ex. 6}} \quad 3^{2x} + 3^x - 2 = 0$$

Assignment:

W.S. 3.4 (1-23)