



Algebra II Journal F.BF.B.5: Logarithmic Equations

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[1] Answers may vary. Sample:  $\log x + \log 2 = 5$ ;  $\log 2x = 5$ ;  $2x = 10^5$ ;  $2x = 100,000$ ;  $x = 50,000$ .

[2] Answers may vary. Sample:  $e^{2x} + 2 = 100$ ;  $x = 2.29$