

## 10350 Exponential Equations - Sample Questions Set 12

Solve the following equations without using a calculator.

(Basic 1)  $3^x = \frac{1}{9}$

(Basic 2)  $3^x = 4$

(Basic 3)  $e^x = 4$

(Miscellaneous 4)  $3 \cdot 4^x = 6$

(Misc. 5)  $3 \cdot e^x = 6 \cdot e^{1-2x}$

(Misc. 6)  $\frac{2e^x + 1}{1 - e^x} = 3$

(Misc. 7)  $e^x(4 - e^x) = -5$