

Algebra 2 CC
Solve using Logs HW

Name _____

Solve for x , only an algebraic solution will receive credit. [Round to 4 decimals]

1.) $7^x = 615$

2.) $4^{4x} = 18$

3.) $8(3)^x = 800$

4.) $3(5)^{2x} = 7$

Solve for x , round to 4-decimal places.

5.) $e^{3x} = 614$

6.) $6e^{0.32x} - 2 = 34$

7.) If $2e^{kt} = 7$, where k is a constant, then t equals

(A) $\ln\left(\frac{7}{2k}\right)$

(B) $\frac{\ln\left(\frac{7}{2}\right)}{k}$

(C) $\frac{\ln 5}{k}$

(D) $\ln\left(\frac{5}{k}\right)$