


Example 6: How much money will be in a bank account after 1.5 years if you invested $\$ 400$ at $7.6 \%$ compounded continuously?

Practice: Complete the following problems for class work. Show all work.

1. Solve $\ln (14 x-3)=\ln (7 x+11)$
2. Solve $2 e^{x}-5=1$
3. $\ln (x-1)=-2$
4. $\ln (2 x-3)=2.5$
5. $\ln 48-\ln x=\ln 4$
6. $e^{3 x} \cdot e^{x}=15$

Mixed Review: Remember, all logarithms share the same rules. Always condense first before solving!
7. $4^{3 x}=12$
8. $\log _{6} x+\log _{6} 9=\log _{6} 54$
9. $\log _{2} x=-3$
10. $\log _{2} 64=x$
11. $\log _{2} x-\log _{2} 5=3$
12. $\ln 4 x+\ln 5=\ln 20$
13. Mazie invested $\$ 4500$ in an account earning $4.3 \%$ interest compounded continuously. After how many years will she have $\$ 7400$ in her account?

