Algebra II, Quiz 11.1-11.2

1) Using the definition of logarithm, solve for x: $\log(x)=3$

2) Solve using logarithm base 10 (you will need a calculator capable of finding logarithms):

a) $65=10^{t}$

b) $3\cdot 10^{t}=101$

c) $126=10^{(t/3)}$

Solve, or state no real numbered solution if there is not a real numbered solution:

a) $4^{5}=16^{x}$

b) $(5/7)^{z}=(2/3)$

c) $5\cdot 2^{p}=130$

d) $802(1.029)^{t}=1127(1.024)^{t}$

e) $1700(1.045)^{q}=2300(1.071)^{q}$