Math 41
Quiz 4
October 27, 2010

1. Use a calculator, if necessary, to evaluate, round to three decimal places, if necessary.

a) $2^{0.5} \approx$ $\boxed{}$

b) $8^{-\frac{2}{3}} =$ $\boxed{}$

c) $500(0.75)^{10} \approx$ $\boxed{}$

d) $\dfrac{200}{1+2e^{-0.5}} \approx$ $\boxed{}$

2. Use the appropriate formula: $A = P\left(1+\dfrac{r}{n}\right)^{nt}$ or $A = Pe^{rt}$

Find the amount in an account (rounded to the nearest penny) if $25,000 is deposited and earning 3% interest for 10 years and the interest is compounded,

a) monthly.

b) continuously.