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

\[ 2^{0.5} \approx \]  
\[ 8^{-\frac{2}{3}} = \]  
\[ 500(0.75)^{10} \approx \]  
\[ \frac{200}{1 + 2e^{-0.5}} \approx \]

2. Use the appropriate formula: 
\[ A = P\left(1 + \frac{r}{n}\right)^{nt} \] 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.