1. Use linear approximation to estimate $\sin 43^{\circ}$.
2. I've got a turkey in the oven. After an hour the meat thermometer indicates that the temperature of the turkey is $93^{\circ} \mathrm{F}$, and after two hours it indicates $129^{\circ} \mathrm{F}$. Predict the temperature of the turkey after 3.5 hours.
3. The snowball that I threw at my brother's head was a perfect sphere. I measured its radius and found it to be 21 cm , with a possible error in measurement of at most 0.05 cm . Roughly what is the maximum error in using this value of the radius to compute the volume of the sphere?
