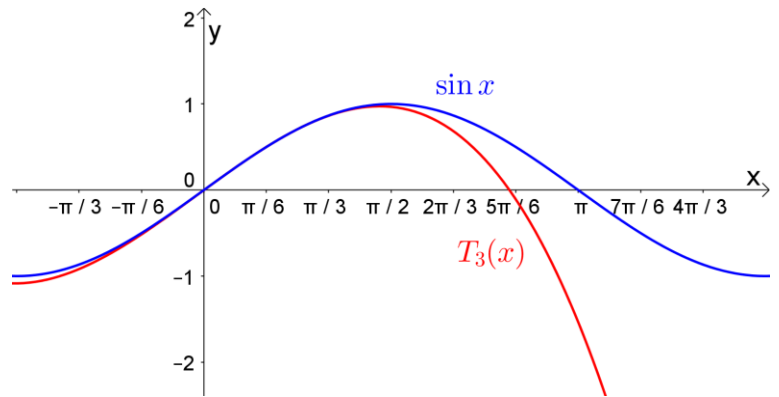


1. Find the Taylor polynomial $T_3(x)$ for $f(x) = \sin x$ centered at $a = \frac{\pi}{6}$. Then use Taylor's Inequality to estimate the accuracy of the $T_3(x)$ when x lies in the interval $0 \leq x \leq \frac{\pi}{3}$.



Joke: What did the buffalo say to his son when he left for college? Bison!

Bonus Joke: Did you hear the joke about the roof? Never mind, it's over your head!