1. Suppose $\cos (\theta)=-\frac{2}{3}$ and $\frac{\pi}{2} \leq \theta \leq \pi$.
a. What is $\sin (\theta)$ ?
b. What is $\tan (\theta)$ ?
2. Find a function of the form $f(x)=a e^{b x}$ with the given function values.
a. $f(0)=2, f(2)=5$
b. $f(0)=4, f(3)=1$
