1. Differentiate the following.

\[ y = \frac{e^x \cos x}{4x^7 - 10\sin x} \]

2. Find all the points on the curve \( y = \tan x \), \( 0 < x < \pi \), where the tangent line is parallel to the line \( y = \frac{4x}{3} \). Sketch the curve and tangent(s) together, labeling each with its equation.