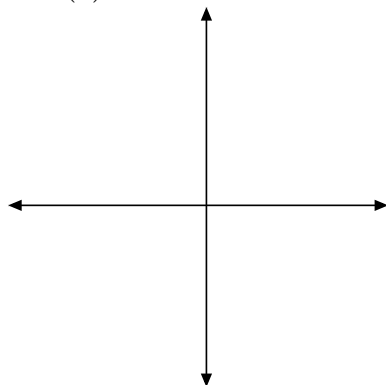


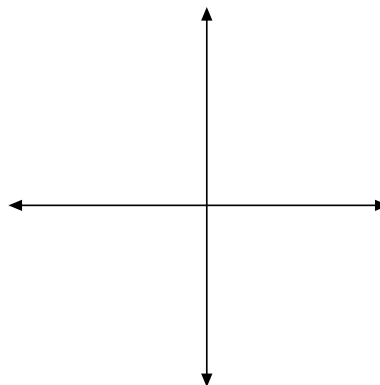
MAT 130, Homework, Due Wed. 9/20/23

Name

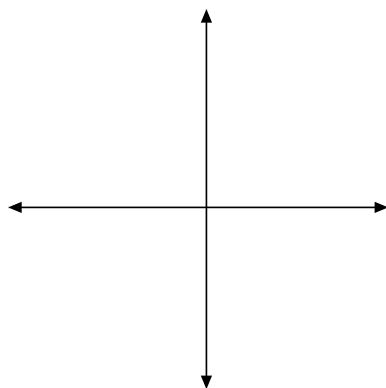
1. Sketch the graph for each function. If the function crosses the x or y axis, label the point(s).



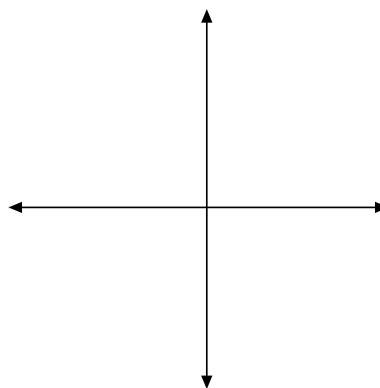
$$f(x) = e^x$$



$$f(x) = e^{-x}$$



$$f(x) = -e^x - 1$$



$$f(x) = \ln x$$

2. Solve (Hint: Graph may help).

$$\lim_{x \rightarrow \pi/2} \tan x =$$

$$\lim_{x \rightarrow \pi/2} e^{\cos x} =$$

$$\lim_{x \rightarrow 0^+} e^x \ln x =$$