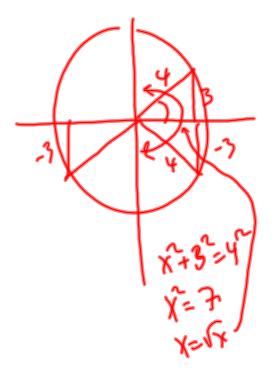
1) a)
$$y = \frac{e^{x}}{b_{x}}$$
 $y' = \frac{b_{x}e^{x} - e^{x} \pm \frac{1}{(a_{x}x)^{2}}}{(a_{x}x)^{2}}$
b) $y = \frac{b_{x}e^{x} - e^{x} \pm \frac{1}{(a_{x}x)^{2}}}{(a_{x}x)^{2}}$
2) a) $y = \frac{b_{x}e^{x} - e^{x} \pm \frac{1}{(a_{x}x)^{2}}}{(a_{x}x)^{2}}$
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$$y' = \frac{b_{x}e^{x} - e^{x} \pm \frac{1}{(a_{x}x)^{2}}}{(a_{x}x)^{2}}$$

$$y' = \frac{b_{x}e^{x} -$$



3)
$$\frac{d(\sin^{-1}(2x))}{dx} = \frac{1}{(1-(2x))^{2}} \frac{d(2x)}{dx}$$

Ya) $\frac{\sin 2x}{\sin 5x} = \frac{0}{0}$
 $\frac{\sin 2\cos 2x}{x \Rightarrow 0} = \frac{2}{5}$

4b)
$$\lim_{x\to\infty}\frac{e^{3x}}{x^3}=\frac{\infty}{\infty}=\infty$$

$$0 \quad \text{hi} \quad \frac{3e^{3x}}{3x^2} = \frac{\infty}{\infty}$$