

~~$\cos x + \sin x$~~ , ~~$-\sin x + \cos x$~~

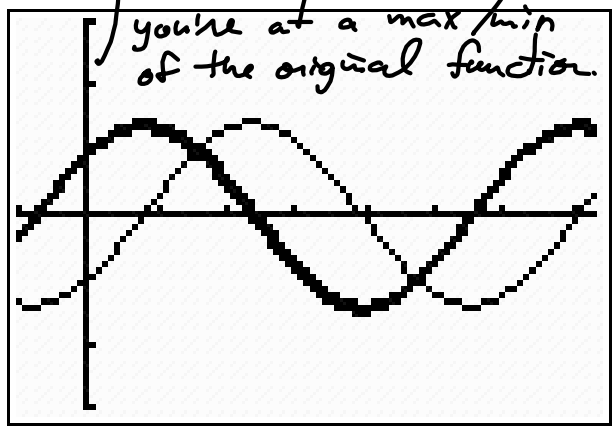


S'2.3#31 They're trying to trick you into doing calculus in the dark.

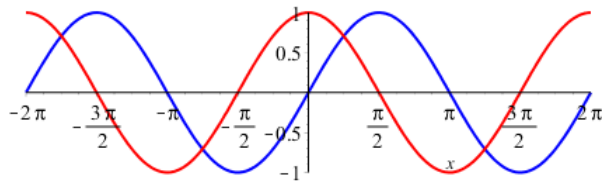
$\cos x - \sin x = 0$
 $\cos x = \sin x$
 $\cot x = 1$

Slope of $f(x)$ is
 $\lim_{h \rightarrow 0} \frac{f(x+h) - f(x)}{h}$
 $\frac{\sin(x+h) - \sin(x)}{h}$
 $\xrightarrow{h \rightarrow 0} \cos(x)!$

$225^\circ, \frac{5\pi}{4}$ The $\cos x - \sin x$ is the SLOPE function where it is zero,



Slope of $\sin(x)$ is $\cos(x)$



Slope of $\cos(x)$ is $-\sin(x)$

