Precalc 15.5
Find derivative of e^x
Find derivative of ln[x]
Find derivative of sin(x) and cos(x)

product
derivative slope
first derivative
differentiation
friendly functions e ln radians
graphing calculator

1. No FMC, will have exit ticket instead
   Add to HW paper (top?)
2. Homework: class.name.date
   Shared folder by class time tomorrow

Saxon L37

May 3-9:09 PM

Friendly functions
$y=e^x$ $y' = e^x$
$y=\ln x$ $y' = \frac{1}{x}$
$y=\sin x$ $y' = \cos x$
$y=\cos x$ $y' = -\sin x$

Trig functions: must be in radians!

Apr 28-3:33 PM

Practice:

$y = \sin x$ $f(x)$ $f'(x) = \cos x$

$y = \cos x$ $f(x)$ $f'(x) = -\sin x$

Apr 28-3:34 PM

$y = 5\sin x - 7x^4 + 6$
$y' = 5(\cos x) - 7 \cdot 4x^3 + 0 = 5\cos x - 28x^3$
$y = 2e^x + \sin x$
$y' = 2e^x + \cos x$

Mar 23-4:06 PM

$y = \ln|x| - 5\sin x + 3x^3$
$y' = \frac{1}{x} - 5\cos x + 3 \cdot 3x^2$
$y = 2\ln|x| + 3e^x + x^2$
$y' = 2 \cdot \frac{1}{x} + 2$ $f(x)$
$y' = \frac{2}{x} + 3e^x + 2x^1$ $f'(x)$

Mar 23-4:07 PM

$y = 5\cos x - 3\sin x$ exit ticket

$y = 3\ln|x| - 2e^x - \sqrt{x}$ wed 9sc

ws 1-10 15.5

$x^{\frac{1}{2}}$
$\frac{1}{2}x^{-\frac{1}{2}} = \frac{1}{2} \cdot \frac{1}{x^{\frac{1}{2}}} = \frac{1}{2\sqrt{x}}$

Mar 23-4:07 PM

Mar 23-4:08 PM