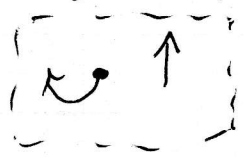


3-10-2016

NEED TO KNOW:

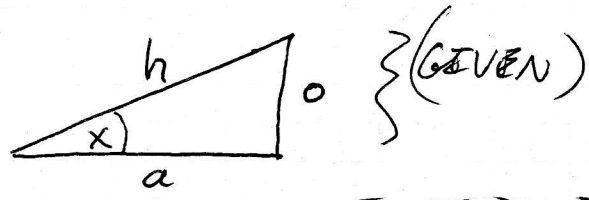


PEMDAS
←
INVERTING

FUNCTIONS & INVERSES

+	-
x	÷
sin	sin ⁻¹
cos	cos ⁻¹
tan	tan ⁻¹
y ^x	^x √y
B ^{p/r}	B ^{r/p}
10 ^x	LOG (log)
e ^x	LN (ln)

SOH CAH TOA



$$\sin x = \frac{o}{h}$$

$$\cos x = \frac{a}{h}$$

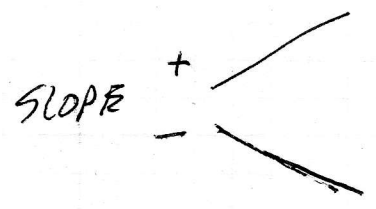
$$\tan x = \frac{o}{a}$$

EXPONENTIAL
NUMBER
OPERATIONS
[EE]

LINES

$$y = ax + b$$

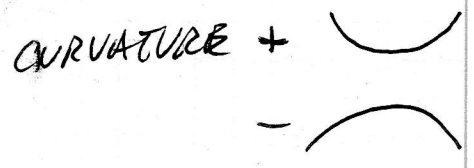
↑ SLOPE = $\frac{\text{RISE}}{\text{RUN}}$ ← Y-INTERCEPT



QUADRATICS (PARABOLAS)

$$y = ax^2 + bx + c$$

↑ CURVATURE ← Y-INTERCEPT



GRAPHS AND THEIR EQUATIONS

ON WEBSITE

QUADRATIC FORMULA

$$ax^2 + bx + c = 0$$

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

SOLVING FOR X (EXPONENTIAL FORMS YOU MAY SEE)

X IS A FACTOR:

$$x \cdot 10^3 = 4000$$

$$\frac{x \cdot 10^3}{10^3} = \frac{4000}{10^3} \leftarrow$$

$$\boxed{x = 4}$$

X IS THE BASE

$$10 x^4 = 160$$

$$\begin{array}{l} 2^{\text{nd}} \rightarrow 4 \\ 10 \cdot x^4 = 160 \\ \uparrow \\ 1^{\text{st}} \end{array}$$

$$\frac{10 x^4}{10} = \frac{160}{10} \leftarrow$$

$$x^4 = 16$$

$$\sqrt[4]{x^4} = \sqrt[4]{16} \leftarrow$$

$$\boxed{x = 2}$$

ONE OPTION:

$$\boxed{1} \boxed{6} \boxed{2^{\text{nd}}} \boxed{\sqrt[4]{y}} \boxed{4} \boxed{=} \leftarrow$$

X IS THE EXPONENT

$$10^x = 10,000$$

$$\log(10^x) = \log(10,000) \leftarrow$$

$$\boxed{x = 4}$$