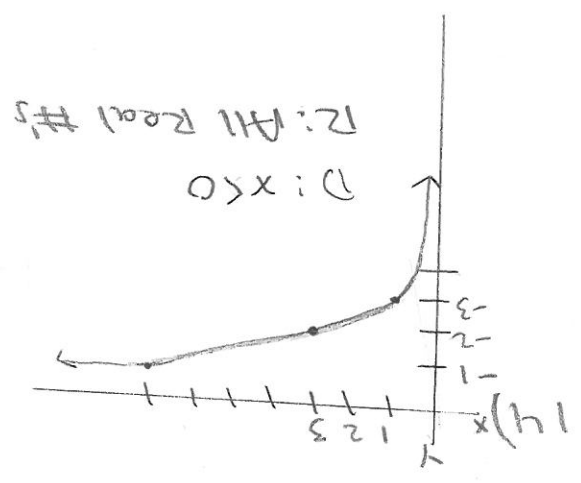


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10) $\log_5 25 = \log_5 5^2 = 2$

$\log_x 1 = 0$

12) $\log_a 1 = x$



$\ln \frac{49}{49}$

14) $2 \ln 7 - 3 \ln 4 = \ln 7^2 - \ln 4^3$

$\log \frac{9}{5x}$

18) $\log 5 + \log x - 2 \log 3 = \log 5x - \log 3^2$

≈ 1.75

20) $\log_a 23 = \frac{\log 23}{\log a}$

$x \pm 8 \approx x$

$x = \frac{1}{2} \left(\frac{\pm \log 2}{\log 30} \right)^2$

$\log_2 30 = 2x$

22) $7^x = 30$

$x = 2$

log of a negative number

$\log_4(-8) \neq$ we can't take the

$(x+8)(x-2) = -8 \cdot 2$

$x^2 + 6x - 16 = 0$

$x^2 + 6x = 16$

$\log_4 x^2 + \log_4 x = 2$

24) $\log_4 x + \log_4(x+4) = 2$

$y = 2.95x$

$\frac{3.907}{8} \approx 2.95$

$\log_2 \left(\frac{8}{15} \right) = y$

$\frac{8}{15} = 2^y$

$15 = \frac{8}{2^y} \cdot 6^y$

$\frac{8}{3^y} = a$

$8 = a \cdot 3^y$

$y = a \cdot x^y$

26) write a power fcn that passes through (3, 8) and (4, 15)

$A = \$33,078.2$

$\$2500e^{0.055(8)} = A$

28) $P e^{rt} = A$