MATH180 - REC NOTES Chapter 3 JAIME SAENZ loganthms teview WED, AUGUST 21, 2024 3²=9 3×= 9 X YX WWE'SE OF W loy 9 = 2 3× -> ex=10 109_10=e natural logs are loge. for short, use In. lay by base means lay 10 logs and dervituves $(\ln x) = \frac{1}{x}$ (e*)=e* (3x) = x3x-1 X zunt do this. x is not a number so you cant do this (3×)': ln3·3× Use your calculator Homework 3.1 review Solve for P to two decimal Places Solve for t 72500=Pe^{0.078(10)} e-0.32+ 0.84 53234.44 e0.078(10) = 2.1815 Ine-0.32+ = In 0.87 72500=P(2.1815) -0.324: In 0.87 72500 = P += <u>In(0.87)</u> 33.234.44= P + = -0.1105 +=0.3642 If the base is negative, it doesn't exist

MATH180 - REC NOTES
JAIME SAENZ
WED, AUGUST 21, 2024

e0.60lex = 26

In e 0.000x = In 26

0.000x= ln 26

Use a calculator and evaluate A to the nearest cent

A= \$7000 e 0.03+ for += 4,8,9

+=4, A = \$7892.48 Use graphing +=8, A= \$8898.74 Junction

+:9,A × \$9169.75

X = \frac{\ln26}{0.006}

If \$3000 is invested at 8.690 compounded continuously, graph the amount in the account as a function of time for a pender of a years.

A= Pert

P= 3000 S(4)= 3000 e 0.086+

7=0.086 3(a)= 3000e 0.086(a)

t= 4

 $\frac{5(x)=\frac{1x-1}{x-1}}{|\alpha|}$

 $\frac{|x-1|}{|x-1|} = \begin{cases} \frac{|x-1|}{|x-1|} & |x-2| & ||x-3|| \\ \frac{-(x-1)}{|x-1|} & -||x-1|| \end{cases}$

MATH180 - REC NOTES JAIME SAENZ WED, AUGUST 21, 2024

Find
$$\frac{d}{dx} \left(\frac{1.6}{4\sqrt{x^3}} - 3.9x^{-4} + 2x \right)$$
.