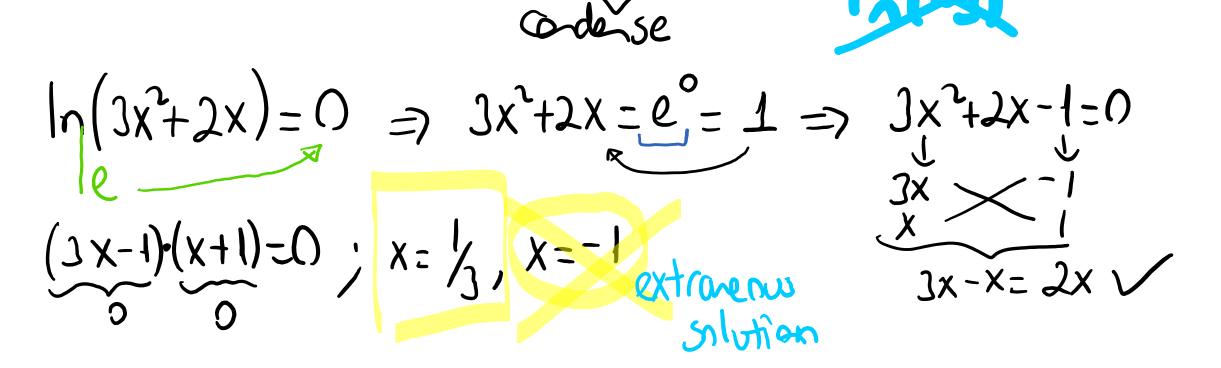
Lecture#2 : Review of Precalculus

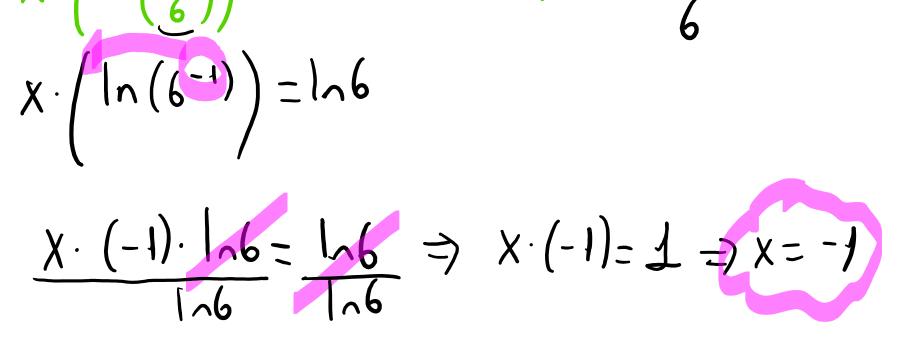
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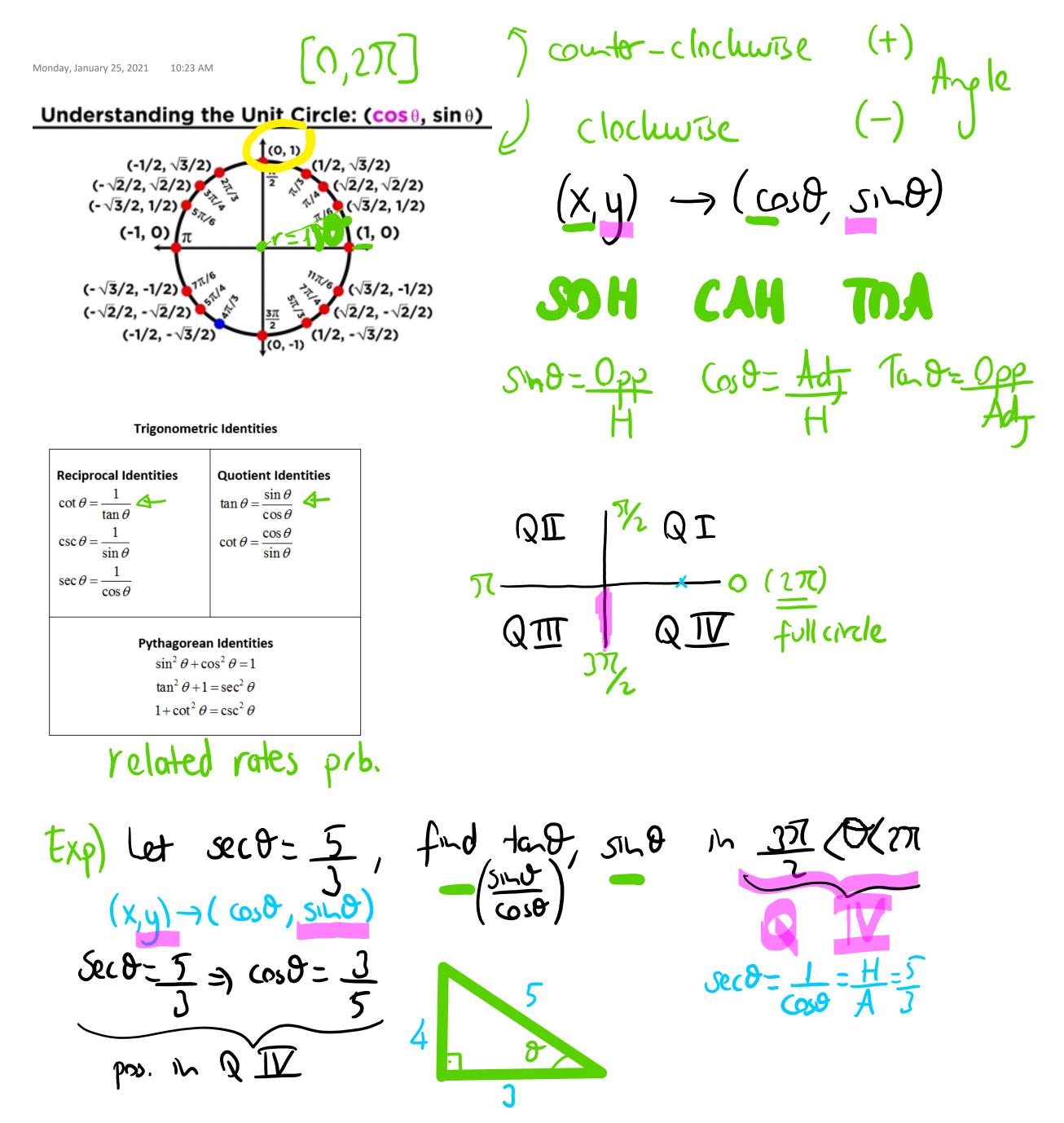
$$\begin{aligned} & \text{Exp} \left(\begin{array}{c} \text{Lot} & \log p = 5 \\ \text{Gien} \end{array} \right) = \log p_{k}^{3} + \log p_{k}^{2} = 3 \cdot \log p + 2 \cdot \log q \\ & \text{Find} = 3 \cdot 5 + 2 \cdot (-2) \\ & = 15 - 4 = 11 \end{aligned} \\ & \text{We used the prop. of } \log \cdot f \cdot \text{th expand } b \text{ subs. given the line will use these for LoGARITHENIC DIFFERENTIATION} \\ & \text{Exp} \left(\begin{array}{c} \text{Find} + n \end{array} \right) = \int_{1}^{2} (2 \cdot 4 - 1) \\ & \text{Log} \left(\begin{array}{c} 1 \times \frac{29}{3} + 1 - 2 \end{array} \right) = \ln \left(\begin{array}{c} 1 \times \frac{29}{3} + 2 \cdot (-2) \\ & = 15 - 4 = 11 \end{array} \right) \\ & \text{We used the prop. of } \log \cdot f \cdot \text{th expand } b \text{ subs. given the line } \\ & \text{He will use these for LoGARITHENIC DIFFERENTIATION} \\ & \text{Exp} \left(\begin{array}{c} 1 \times \frac{29}{3} + 1 - 2 \end{array} \right) = \int_{1}^{2} (2 \cdot 4 - 2 - 2) \\ & \text{Log} \left(\begin{array}{c} 1 \times \frac{29}{3} + 1 - 2 \end{array} \right) \\ & \text{Log} \left(\begin{array}{c} 1 \times \frac{29}{3} + 1 - 2 \end{array} \right) = \int_{1}^{2} (3 \times \frac{29}{3} + 1 - 2 - 2 \end{array} \right) \\ & \text{Log} \left(\begin{array}{c} 1 \times \frac{29}{3} + 1 - 2 \end{array} \right) \\ & \text{Log} \left(\begin{array}{c} 1 \times \frac{29}{3} + 1 - 2 \end{array} \right) \\ & \text{Log} \left(\begin{array}{c} 1 \times \frac{29}{3} + 1 - 2 \end{array} \right) \\ & \text{Log} \left(\begin{array}{c} 1 \times \frac{29}{3} + 1 - 2 \end{array} \right) \\ & \text{Log} \left(\begin{array}{c} 1 \times \frac{29}{3} + 1 - 2 \end{array} \right) \\ & \text{Log} \left(\begin{array}{c} 1 \times \frac{29}{3} + 1 - 2 \end{array} \right) \\ & \text{Log} \left(\begin{array}{c} 1 \times \frac{29}{3} + 1 - 2 \end{array} \right) \\ & \text{Log} \left(\begin{array}{c} 1 \times \frac{29}{3} + 1 - 2 \end{array} \right) \\ & \text{Log} \left(\begin{array}{c} 1 \times \frac{29}{3} + 1 - 2 \end{array} \right) \\ & \text{Log} \left(\begin{array}{c} 1 \times \frac{29}{3} + 1 - 2 \end{array} \right) \\ & \text{Log} \left(\begin{array}{c} 1 \times \frac{29}{3} + 1 - 2 \end{array} \right) \\ & \text{Log} \left(\begin{array}{c} 1 \times \frac{29}{3} + 1 - 2 \end{array} \right) \\ & \text{Log} \left(\begin{array}{c} 1 \times \frac{29}{3} + 1 - 2 \end{array} \right) \\ & \text{Log} \left(\begin{array}{c} 1 \times \frac{29}{3} + 1 - 2 \end{array} \right) \\ & \text{Log} \left(\begin{array}{c} 1 \times \frac{29}{3} + 1 - 2 \end{array} \right) \\ & \text{Log} \left(\begin{array}{c} 1 \times \frac{29}{3} + 1 - 2 \end{array} \right) \\ & \text{Log} \left(\begin{array}{c} 1 \times \frac{29}{3} + 1 - 2 \end{array} \right) \\ & \text{Log} \left(\begin{array}{c} 1 \times \frac{29}{3} + 1 - 2 \end{array} \right) \\ & \text{Log} \left(\begin{array}{c} 1 \times \frac{29}{3} + 1 - 2 \end{array} \right) \\ & \text{Log} \left(\begin{array}{c} 1 \times \frac{29}{3} + 1 - 2 \end{array} \right) \\ & \text{Log} \left(\begin{array}{c} 1 \times \frac{29}{3} + 1 - 2 \end{array} \right) \\ & \text{Log} \left(\begin{array}{c} 1 \times \frac{29}{3} + 1 - 2 \end{array} \right) \\ & \text{Log} \left(\begin{array}{c} 1 \times \frac{29}{3} + 1 - 2 \end{array} \right) \\ & \text{Log} \left(\begin{array}{c} 1 \times \frac{29}{3} + 1 - 2 \end{array} \right) \\ & \text{Log} \left(\begin{array}{c} 1 \times \frac{29}{3} + 1 - 2 \end{array} \right) \\ & \text{Log} \left(\begin{array}{c} 1 \times \frac{29}{3} + 1 - 2 \end{array} \right) \\ & \text{Log} \left(\begin{array}{c} 1 \times \frac{29}{3} + 1 - 2 \end{array} \right) \\ & \text{Log} \left(\begin{array}{c} 1 \times \frac{29}{3} + 1 - 2 \end{array} \right) \\$$



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Exp) Solve the eq.
$$3^{4-x} = 27^{x}$$
 $27 = 3^{3}$
 $3^{4-x} = (3^{3})^{x} = 3^{3x}$ (or Fig: $3^{4-1} = 27^{2}$
 $4^{-x} = 3x$
 $4 = 4x$
[X=1]
Exp) Solve the eq: $5^{x^{2}-4x+5} = 25$; $x = ?$
A) -3 B) 3 C) -1 D) 1 E) Nove
 $5^{x^{2}-4x+5} = 2$
 $x^{2}-4x+5 =$





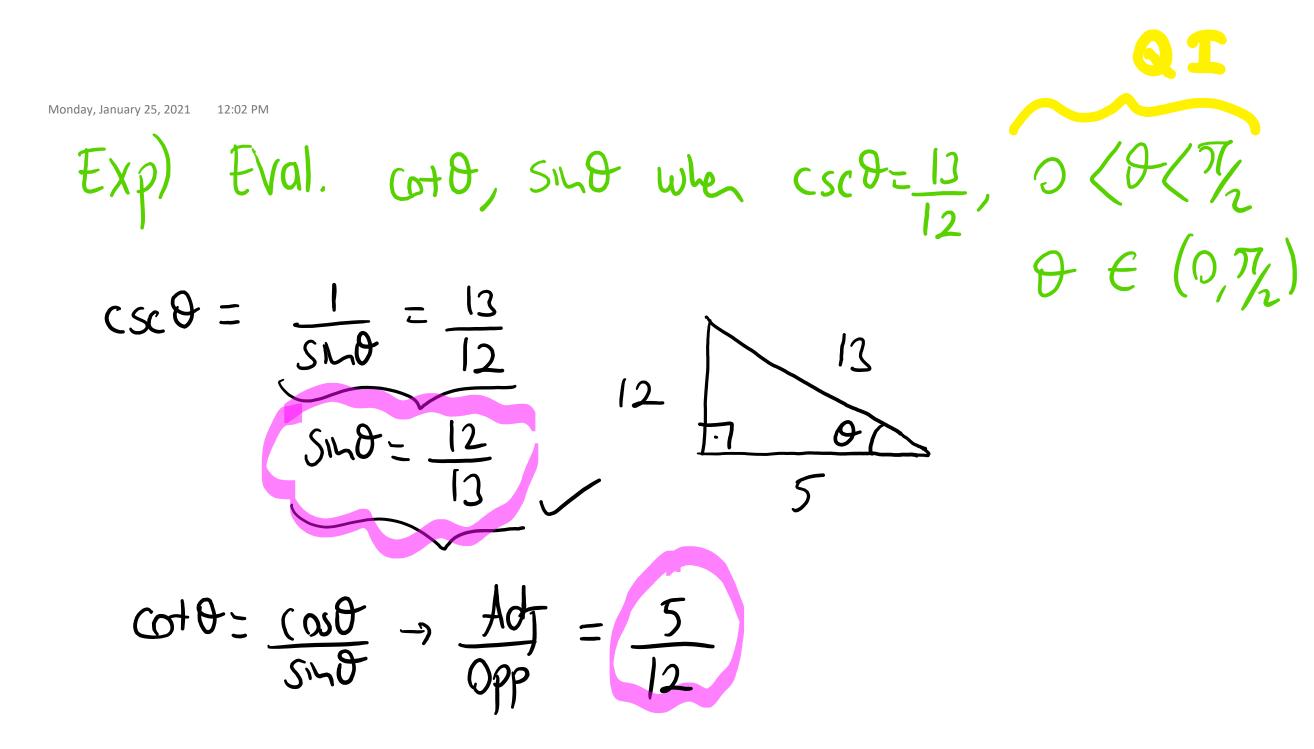
Sho = Opp = -4

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Exp) Solue
$$\ln(\log x) = 0$$
 x=?
 $\ln(\log x) = 0 = 2 \log x = e^{2} = 1 = 2 \log x = 1$
 $\ln x = 1$

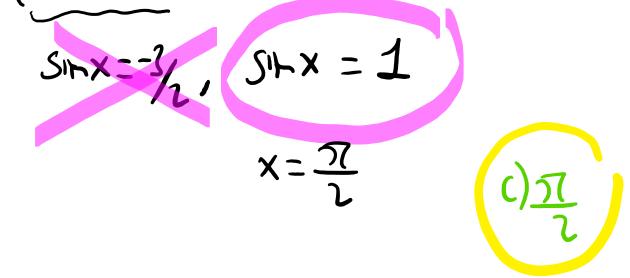
$$2.9! \log x = 3 = 7 x = 2^{3}$$

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Exp) Find solution(s) in $[0, 2\pi]$ in radians: $2 \cdot sh^2 x + sh x - 3 = 0$ A) $\frac{3\pi}{2}$ B) $\frac{-3\pi}{2}$ C) $\frac{\pi}{2}$ D) Note

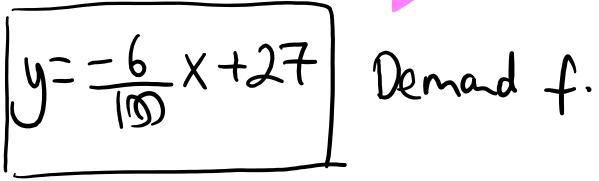
 $2 \cdot s \ln^2 X + s \ln x - 3 = 0 \Rightarrow (2 s \ln x + 3) (s \ln x - 1) = 0$



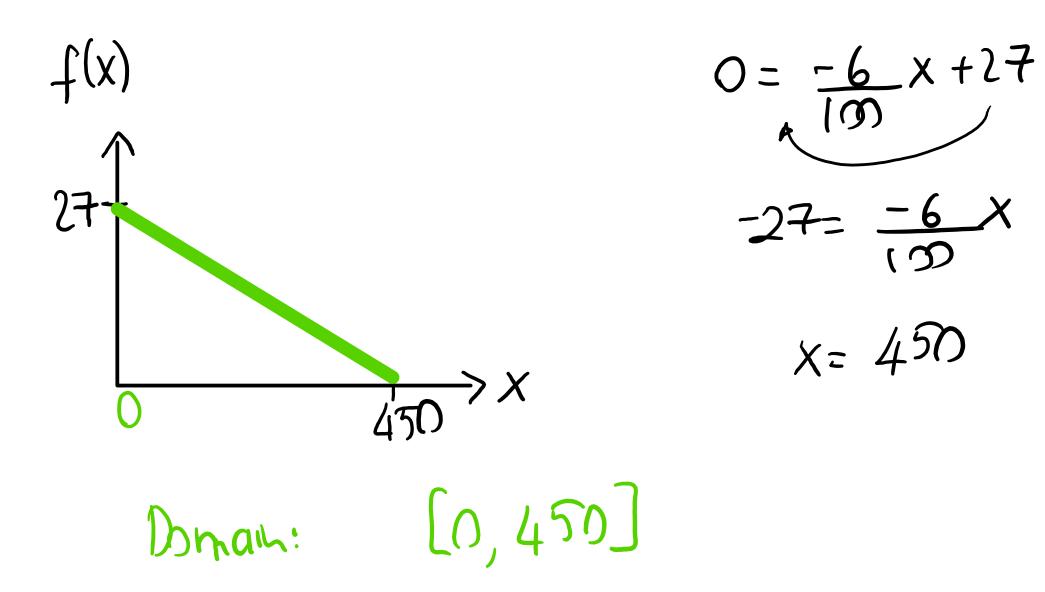
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Sales records indicate that if Blu-ray players are priced at \$300, then a large store sells an average of 9 units per day. If they are priced at \$200, then the store sells an average of 15 units per day. Find and graph the linear demand function for Blu-ray sales. For what prices is the demand function defined?



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