Q1-

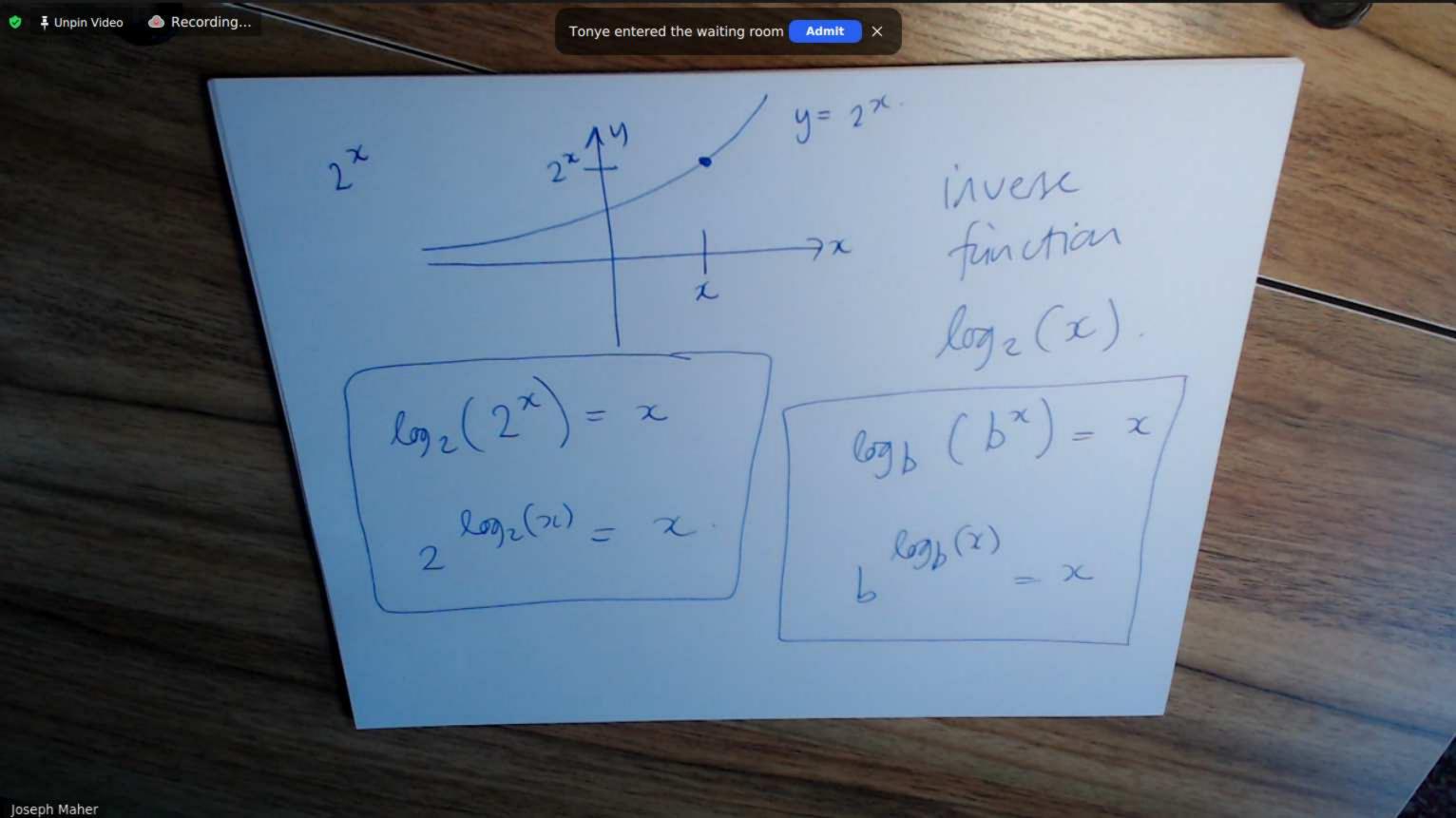
$$x-1=2$$

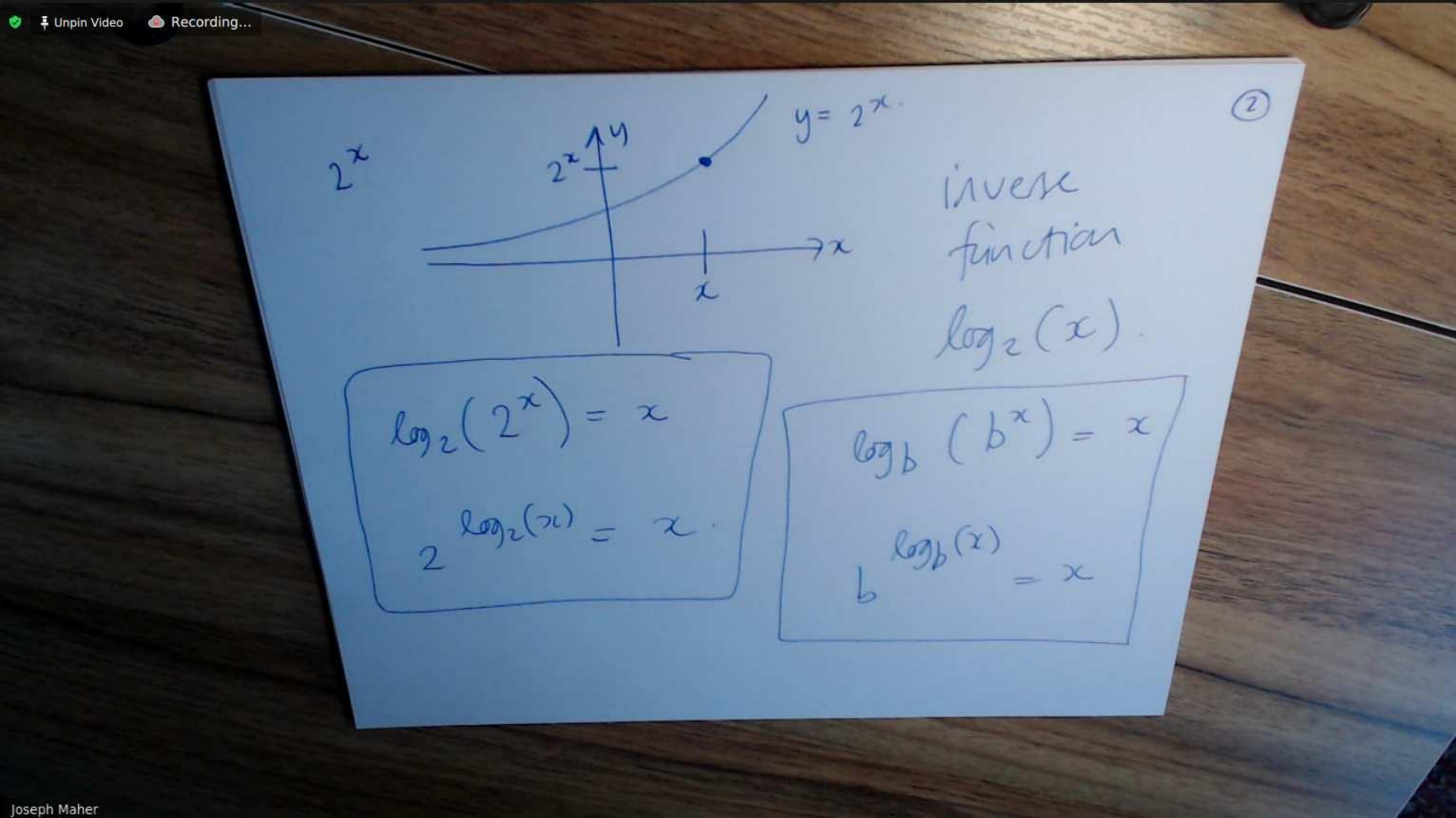
$$z=3$$

$$2^{x-1} = 5$$
.

$$f(x) = x+2$$

$$f(x)$$
.  $f^{-1}(x)$ .





$$2^{\chi-1} = 4$$

$$2^{\chi-1} = 5$$

$$\log_2(2^{\chi-1}) = \log_2(4)$$

$$\chi = 2$$

$$+1 = 2$$

$$+1 = 4$$

$$\chi = 3$$

$$\log_2(5) + 1$$

$$\log_2(5) + 1$$

$$\log_2(5) + 1$$

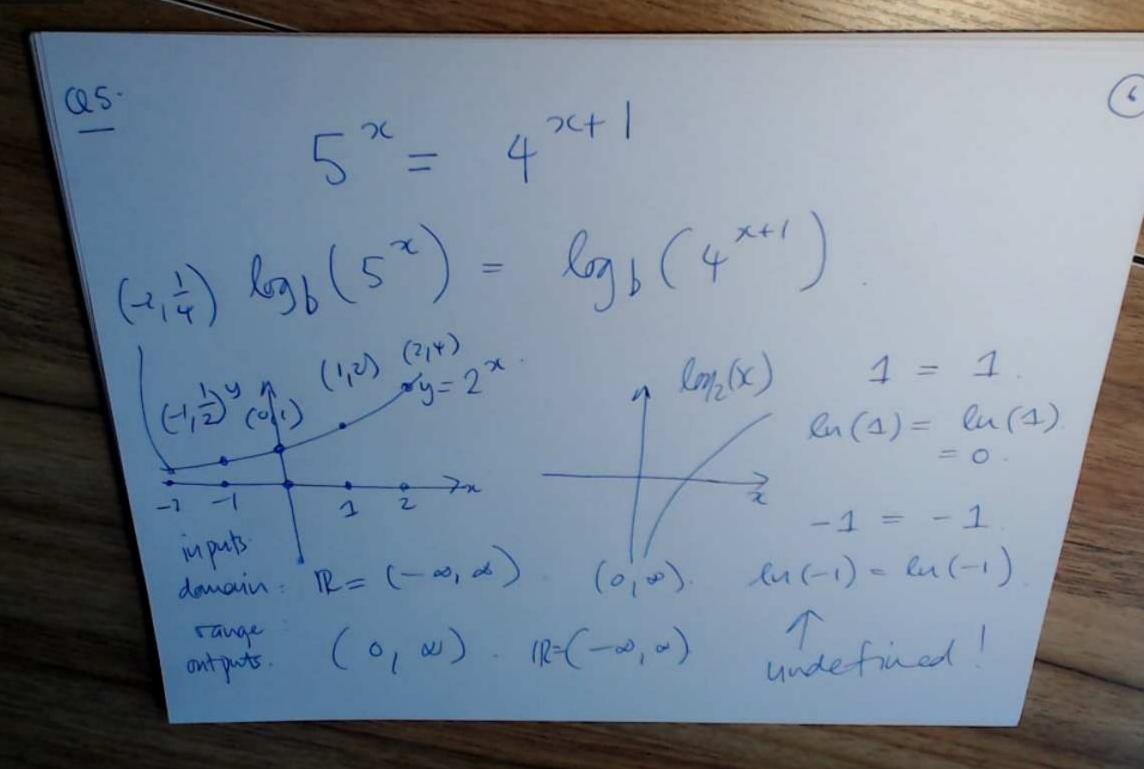
$$\log_2(5) + 1$$

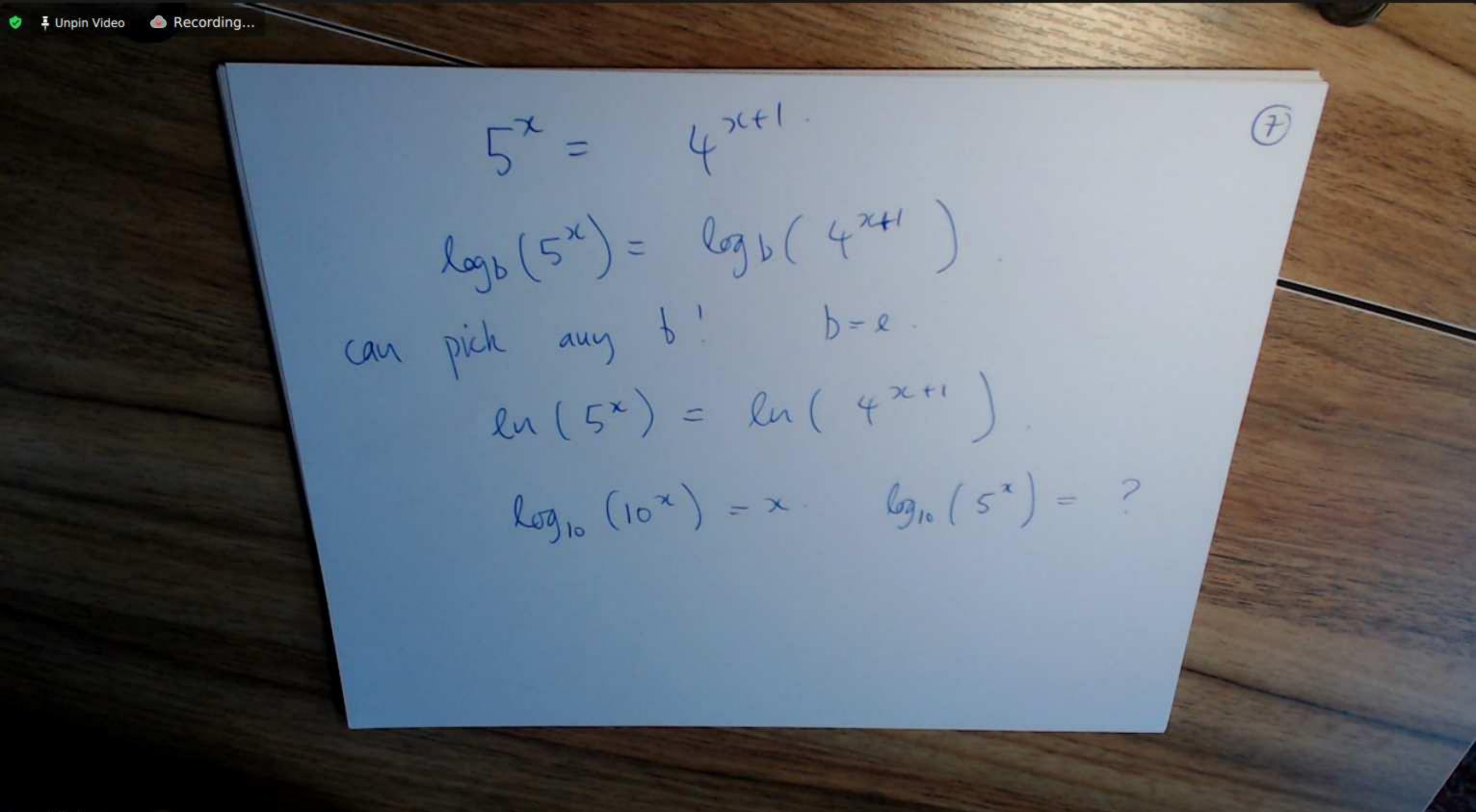
$$\chi = \log_2(5) + 1$$
 $\chi = \log(5) + 1$ 
 $\log(2)$ 
 $\chi = 3.32...$ 

$$\log_b(x) = \frac{\log_c(x)}{\log_c(b)}$$
in particular
$$= \frac{\ln(x)}{\ln(b)}$$

04-

$$\frac{2x+1}{2} = \frac{200}{2}$$





$$\chi^{a}, \chi^{b} = \chi^{a+b}$$
.

 $log_{b}(x) = \frac{log_{c}(x)}{log_{c}(b)}$ .

 $\chi^{a} = \chi^{a}$ .

 $log_{b}(x) = \frac{log_{c}(x)}{log_{c}(b)}$ .

 $log_{b}(x) = \chi^{a}$ .

$$5^{x} = 4^{x+1} \qquad lg_{2}(24) = 29$$

$$ln(5^{x}) = ln(4^{x+1}) \qquad ln(a^{2}) = b ln(a)$$

$$2 ln(5) = (x+1) ln(4) \qquad ln(a^{2}) = b ln(a)$$

$$2 ln(5) = x ln(4) + ln(4) \qquad ln(5) = x ln(4)$$

$$2 ln(5) - x ln(4) = ln(4) \qquad ln(5) - x ln(5) = ln(4) \qquad ln(5) - x ln(5) = ln(4) \qquad ln(5) - x ln(5) = ln$$

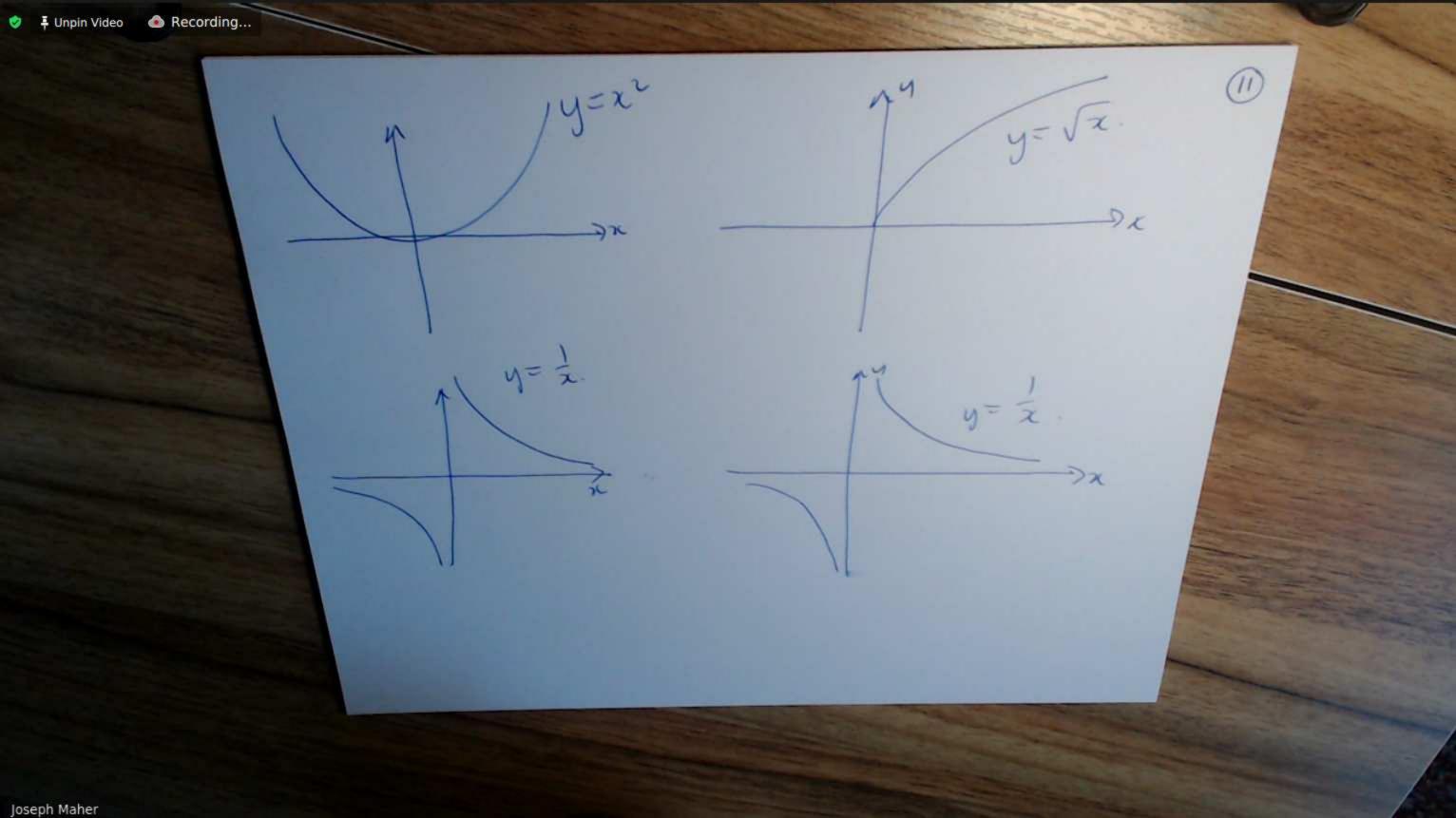
06

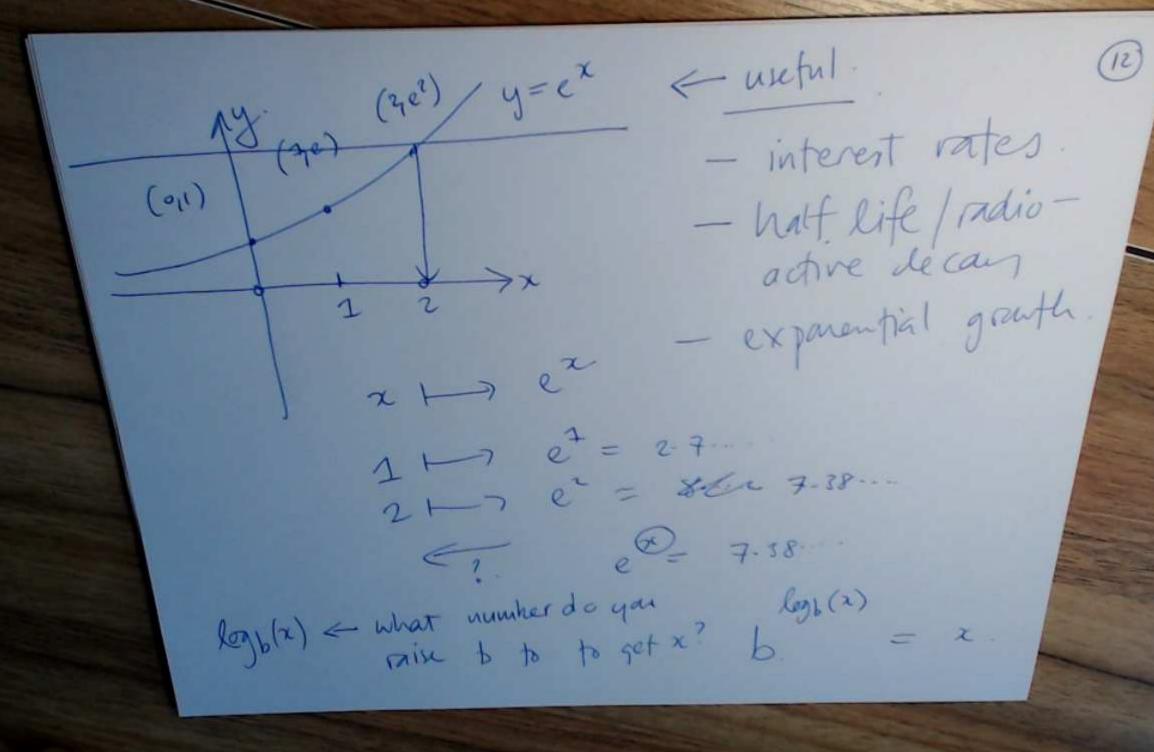
$$\log_{10}(x-4)=2$$

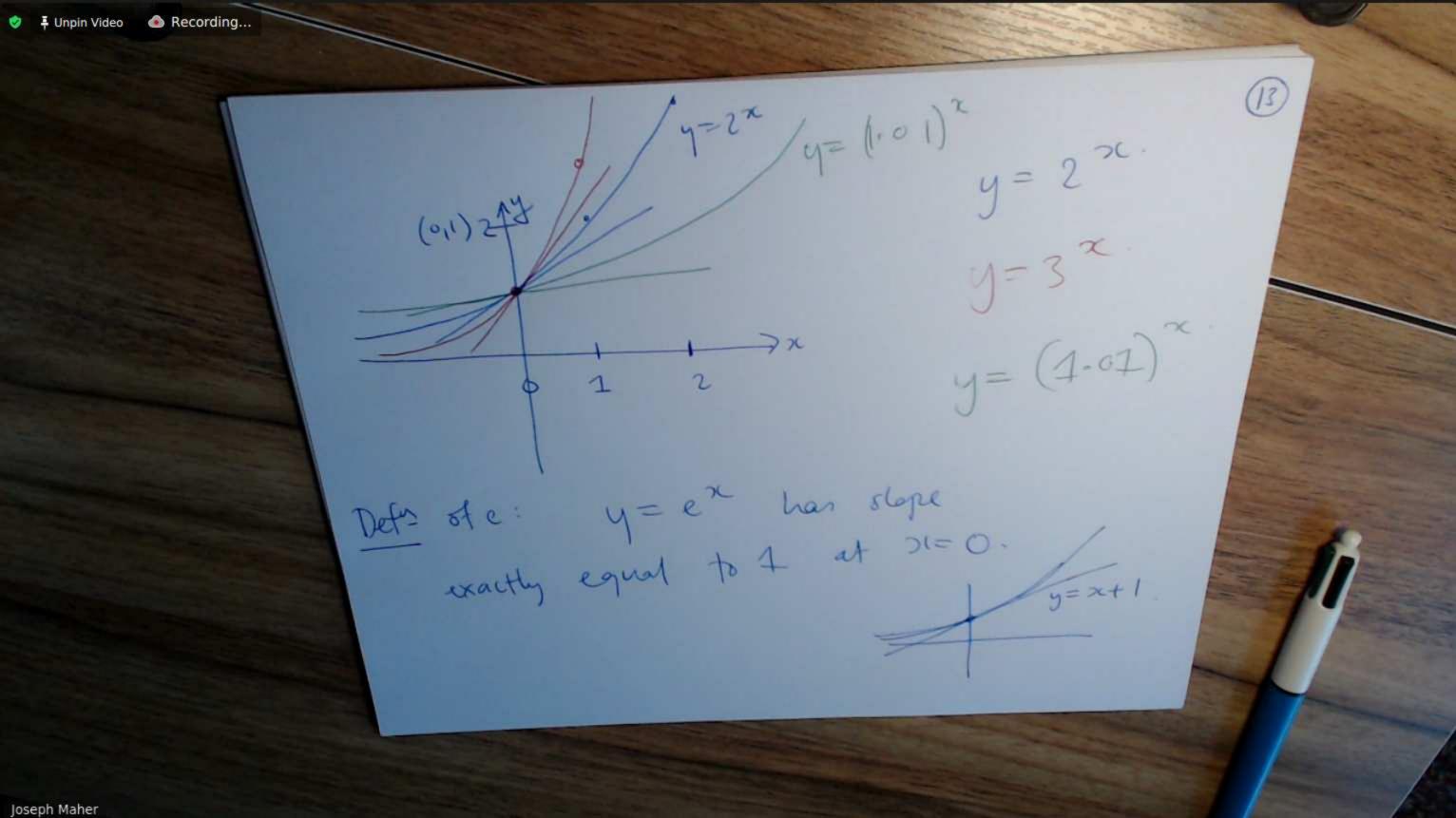
$$\chi - 4 = 10^{2} = 100$$

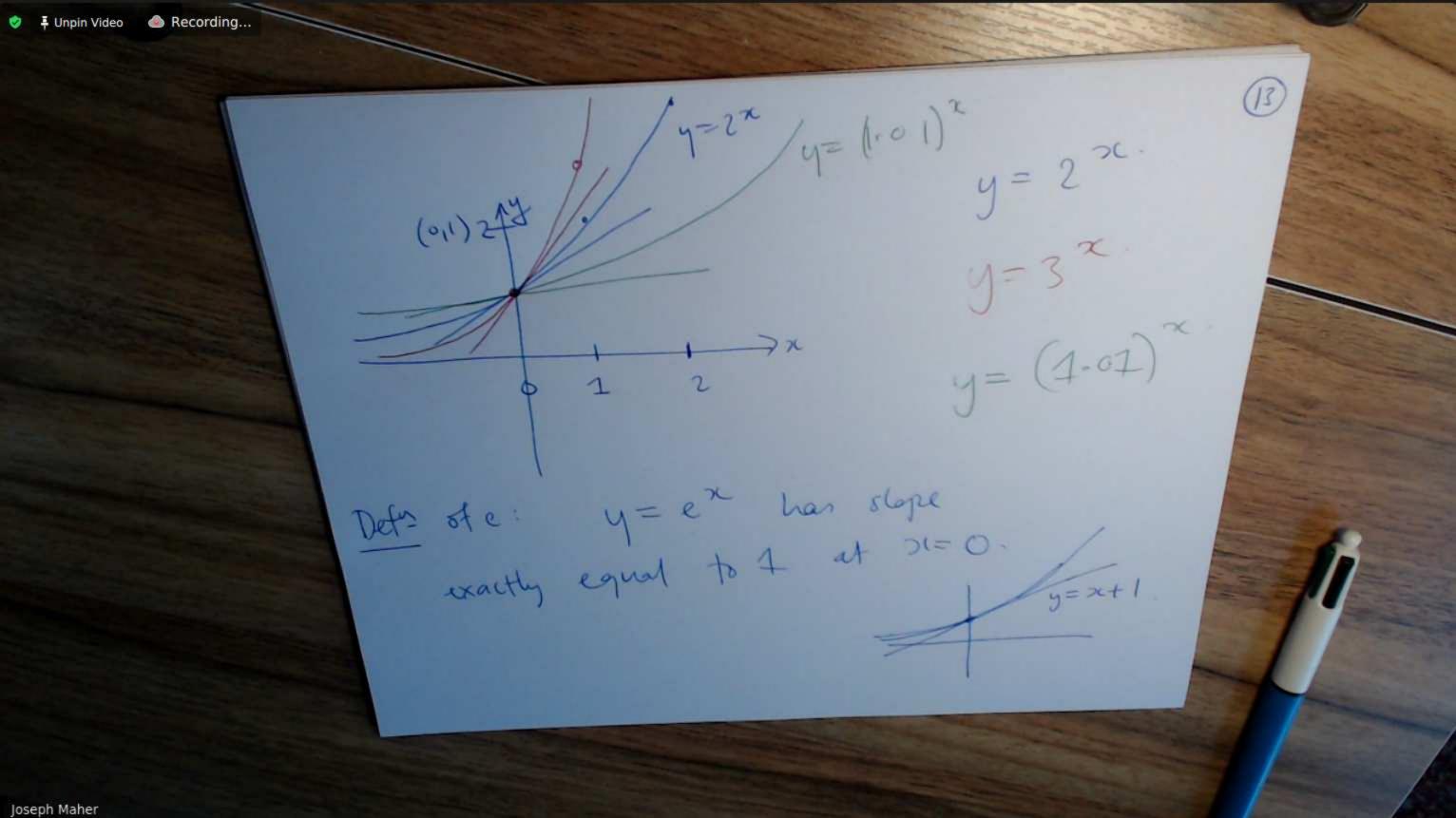
ln(x) (10) loge(x) log(x)

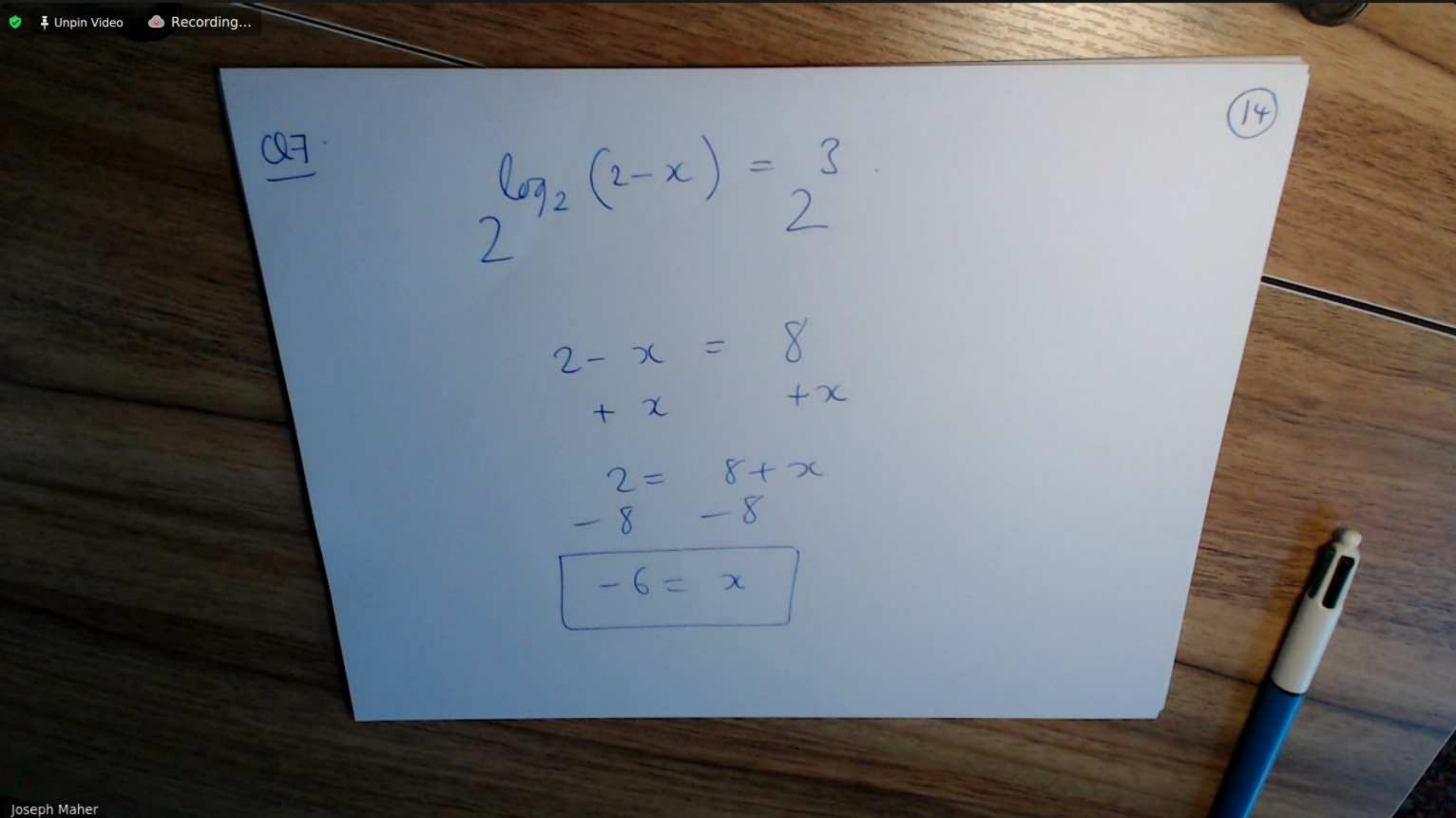
B logb(2) = x logb(4) = x





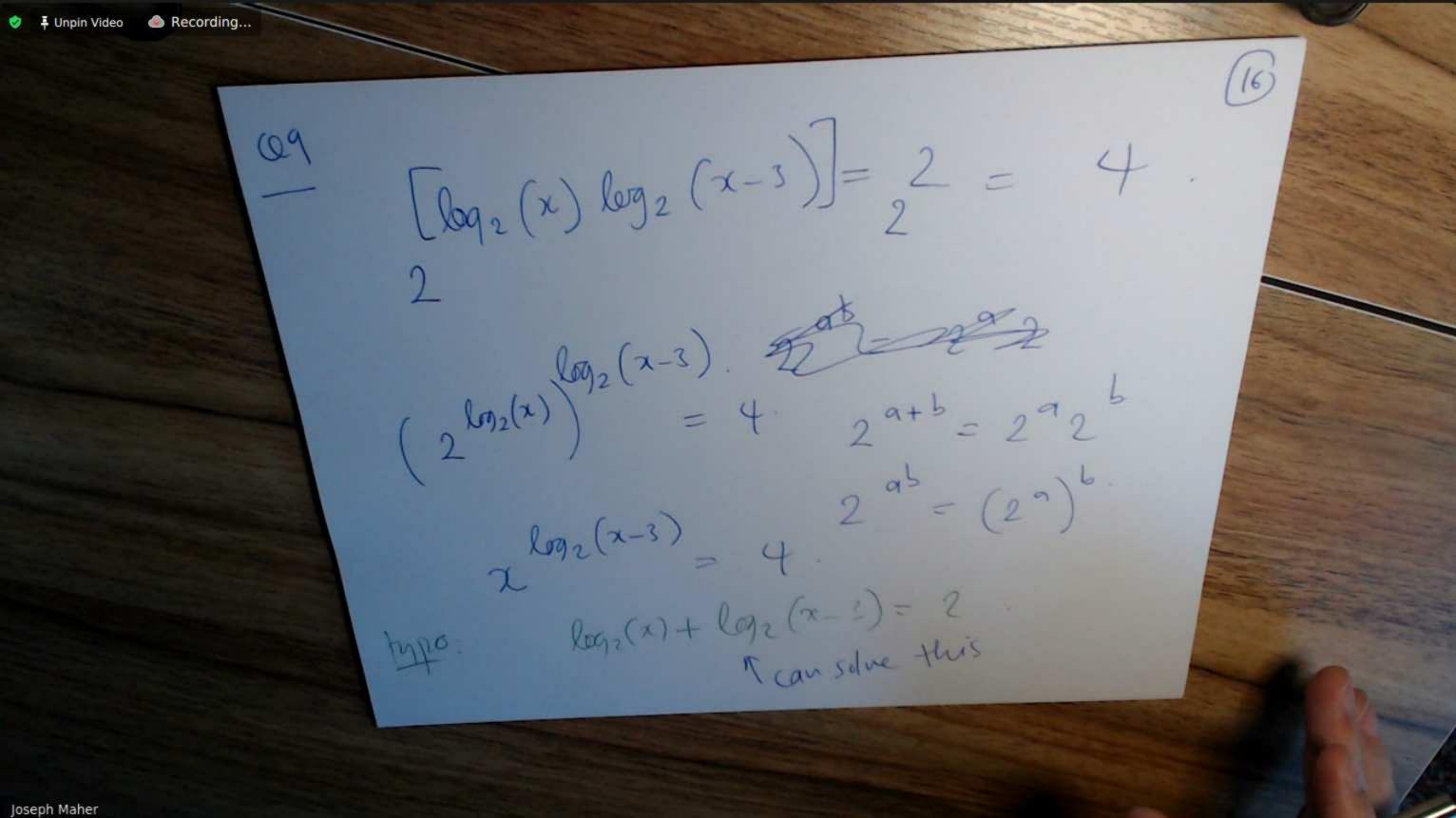


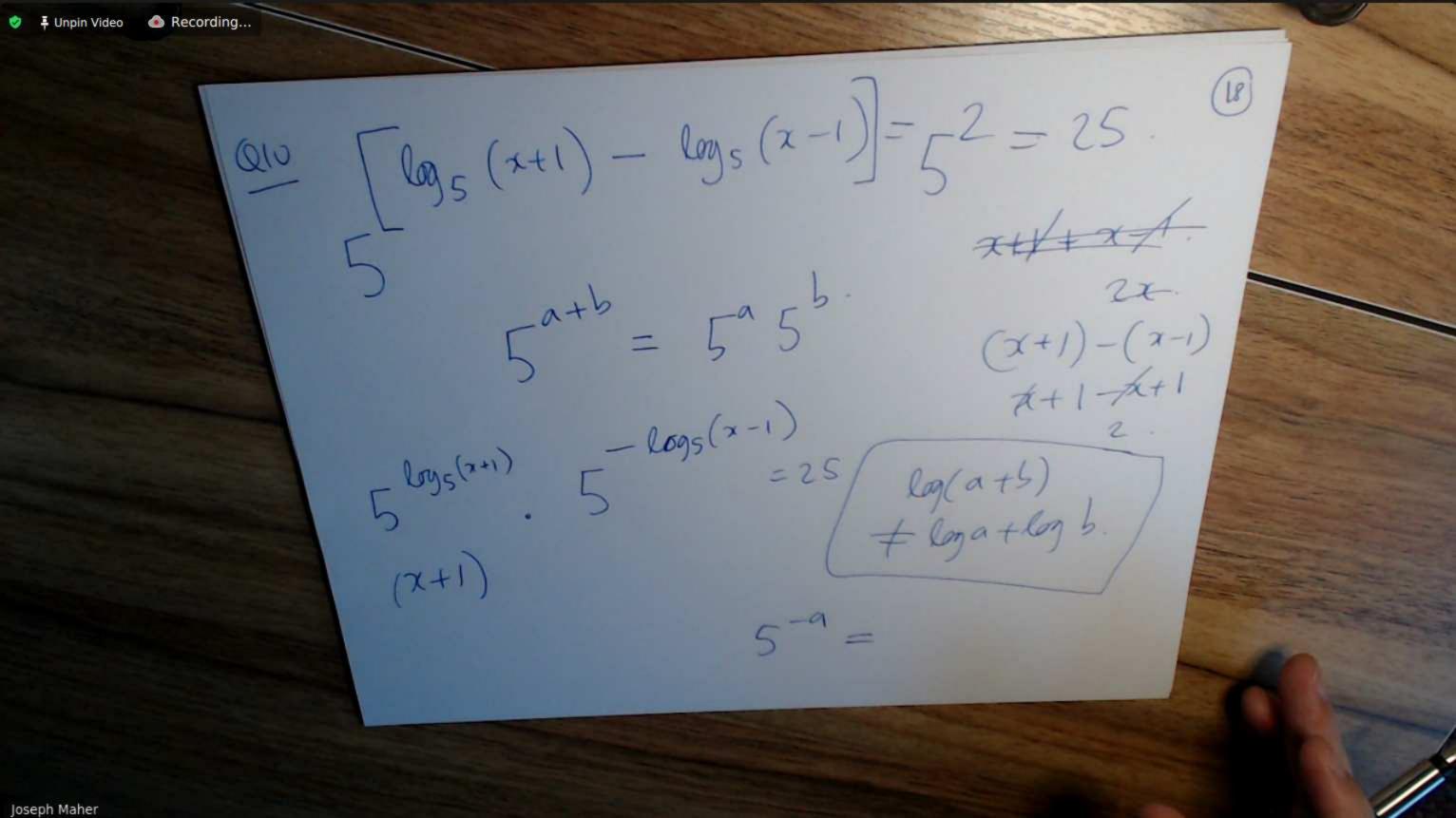




$$\begin{array}{lll}
\cos & 2 \log x = \log 2 + \log (3x - 4) \\
& \log (x^{2}) = \log (2 + \log (3x - 4)) \\
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$$(x+1) = 25.$$

$$(x-1)^{-1} (9)$$

$$(x+1) = 25.$$

$$(x-1)^{-1} (9)$$

$$(x+1) = 25.$$



$$\chi^{2}-2\chi+1=0 \leftarrow \text{quadratic in } \chi^{2}$$

$$\chi-2\sqrt{\chi}+1=0 \leftarrow \text{quadratic in }$$

$$\chi-2\sqrt{\chi}+1=0 \leftarrow \text{quadratic in }$$

$$\chi^{2}-2\chi+1=0 \rightarrow \chi=1.$$



$$e^{x} + e^{x} - 2 + e^{-x} = 0 + e^{x}$$

$$(e^{x})^{2} - 2e^{x} + e^{-x} \cdot e^{x} = 0$$

$$= 1$$

$$(e^{x})^{2} - 2e^{x} + 1 = 0$$

\$ 300 3.50% infact rate. 10 years. annually, semi annually, quartely, c/3/2

t= 10 years

300. t=0. t=1 year. 300 + 3.5%.  $300 \times (1.035)$ . t=2 year.  $300 \times (1.035)^2$ .  $300 \times (1.035)^3$ .  $300 \times (1.035)^3$ .

300 × (1035)10



stuart McLeod entered the waiting room Admit

(23)

add on. 300 æ 3.50%.

$$\frac{300}{100}$$
  $\times$  3.5 = 10.5.

300 add on 3.5%.

$$300 + 300 \times \frac{3.5}{100}$$

$$300 \left(1 + \frac{3.5}{100}\right)$$
.

(23)

\$ 300 F=0. t=1-year. 300× 1.015. \$310.50 t=2 year. 310.50 add on 3.502 of Hus. 310.50 x (1.035) 300x (1.35) x (1.035) 300 × (1-035)2

\$300. t=0. 1.75% 300× (1.0175). t=0.5. 6 months add an. 3.5% 72. t=1. 2 year. add an 3.5% = 1.75% x(1.017\$5). 300×(1.0175)2. 300 x 1.035306 after lo year. 300 × (1075)20.

f=0.

t= 3 month add a

t= 6 months

t= 9 month

t= 1 year

can paind cartinuously

300 × e (# 70) t

300

 $300 \times (1 + \frac{3.5}{100})$ 

300 × (1+ 3.5)2

300x (1+3.5)

3.50

300 (1+ 3.5)

\$100 adda 100%. Lyce \$200.

cts/y \$2-71.

f=0.

t= 3 marth

t= 6 months

t= 9 month

t= 1 year

can paind cartinuously

300 × e (# + 10) t

add a

300

300 × (1+ 3.5)

300 × (1+ 3.5)2.

300× (1+3.5)

3.50

300 (1+ 35) 4

\$100 adda 100% of \$ 400 cts/cs \$2-71-