(xa) = ab

$$\chi^{a}\chi^{b} = \chi^{a+b}$$
 = χ^{a+b} = $\chi^{a}\chi^{b} = \chi^{a+b}$ = $\chi^{a}\chi^{b} = \chi^{a}\chi^{b} = \chi^{a}\chi$

$$\sqrt{2} \times \sqrt{2} = 2$$

$$2^{2} \times 2^{2} = 2$$

$$2^{2\alpha} = 2^{1}$$

$$\sqrt{2} = 2^{\alpha}$$

$$2q = 1$$

$$\alpha = \frac{1}{2}$$

$$\sqrt{2} = 2^{\frac{1}{2}}$$

(xa) = ab

$$\sqrt{2} \times \sqrt{2} = 2$$

$$\sqrt{2} = 2^{\frac{1}{2}}$$

$$29 = 1$$
 $a = \frac{1}{2}$



$$\sqrt{\chi} = \chi^{1/2}.$$

$$\sqrt{\chi} = \chi^{3}$$

$$\sqrt{\chi} = \chi^{3}$$

$$(\chi^{\alpha})^{3} = \chi^{3} = \chi^{1}$$

$$\chi^{3} = \chi^{3} = \chi^{3} = \chi^{1}$$

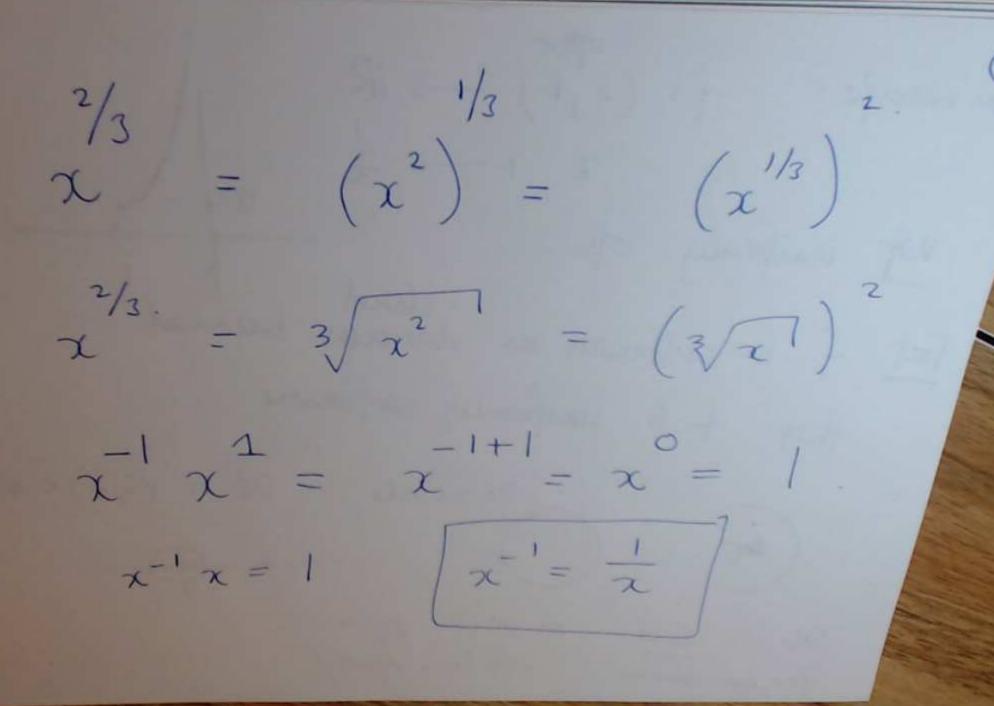
$$\chi^{3} = \chi^{3} = \chi^{3} = \chi^{3}$$

$$\chi^{3} = \chi^{3} = \chi^{3} = \chi^{3} = \chi^{3}$$

$$\chi^{3} = \chi^{3} = \chi^{3}$$



menna entered the waiting room Admit X



xaz= xa+b

(xa) = 2 ab.

Vx = 41/n.

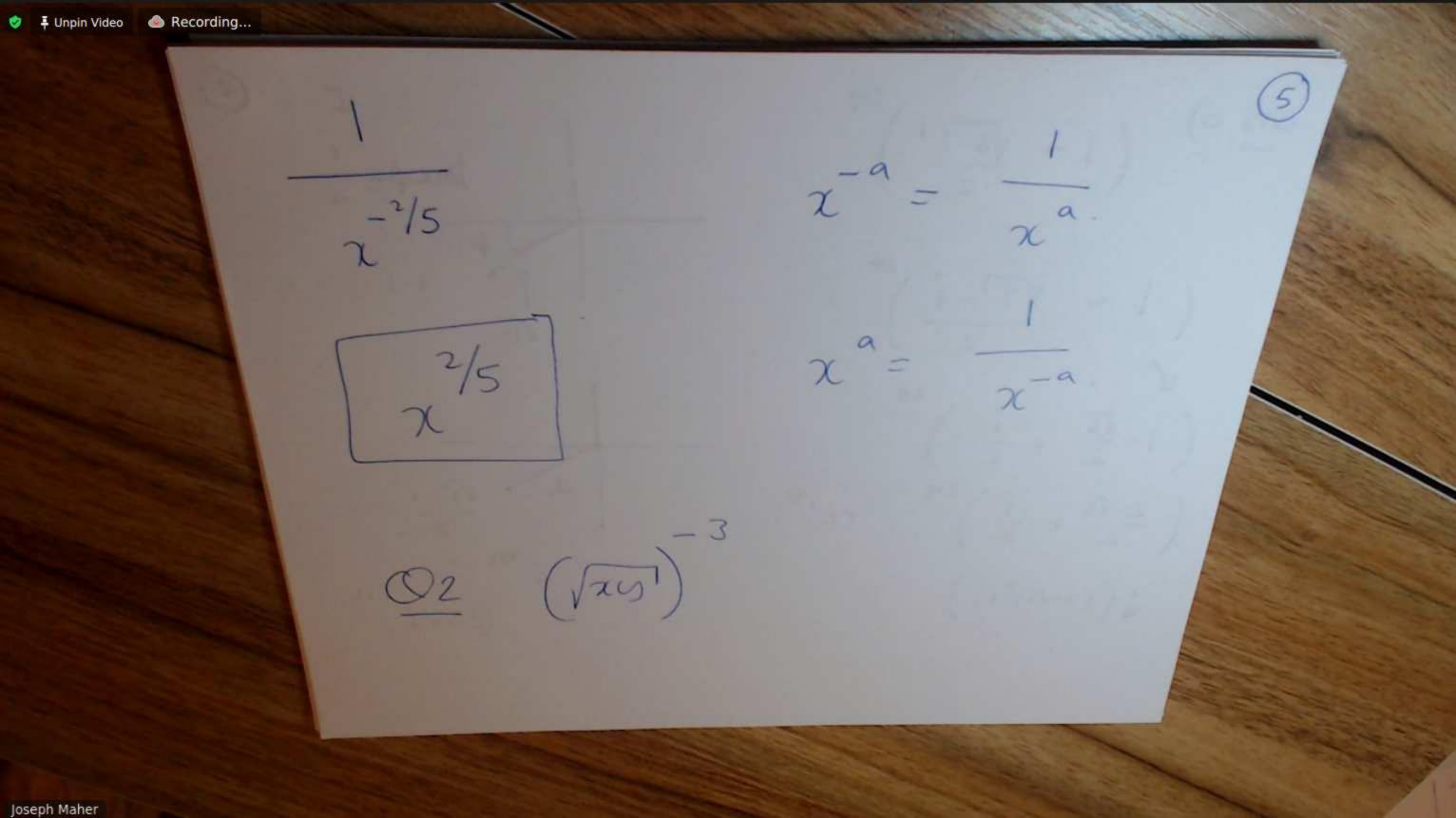
 $-2 \times \frac{1}{5} = \frac{-2}{5}$

Example

5/2-2

(x-2) 1/5.

1 x-2/5

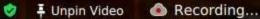


$$(xy)^{-3}$$
 = $(xy)^{-3/2}$.

$$\frac{1}{2} \times -\frac{3}{1}$$

$$=\frac{1}{2^{3/2}} (xy)^{3/2}$$

V77 = 71/2. 6



VX X Z

VZY.X

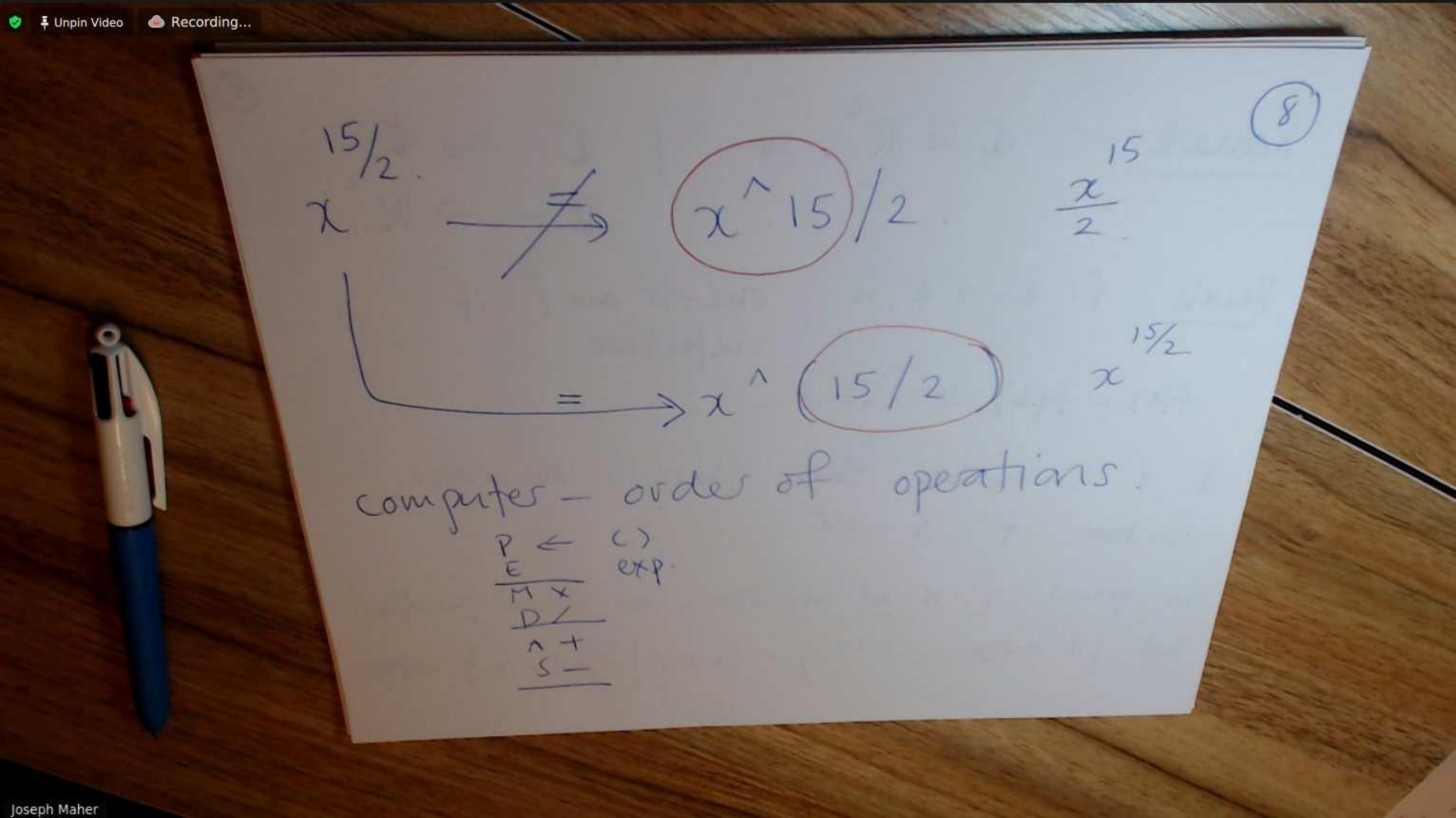
Vxy Vxy

VX X X 4.

1/2 3 4. X X X

1 + 3 + 4

 $\frac{1}{2} + \frac{7}{1 \times 2} = \frac{1}{2} + \frac{14}{2} = \frac{15}{2}$



06

$$(\chi^3)^{1/2}$$
 $\frac{3}{1}\chi_2^{1} = \frac{3}{2}$ 9

$$\frac{3}{1} \times \frac{1}{2} = \frac{3}{2} \cdot \frac{9}{2}$$

$$(\chi^2)^{1/3}$$
. $\frac{2}{7} \times \frac{1}{3} = \frac{2}{3}$.

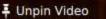
$$\frac{2}{1} \times \frac{1}{3} = \frac{3}{3}$$

$$\frac{\frac{3}{2}}{\chi} = \frac{\frac{3}{2} - \frac{2}{3}}{\chi} = \frac{\frac{3}{2} - \frac{2}{3}}{\chi} = \frac{2 \times 2}{3 \times 2} = \frac{2 \times 2}{3 \times 2}$$

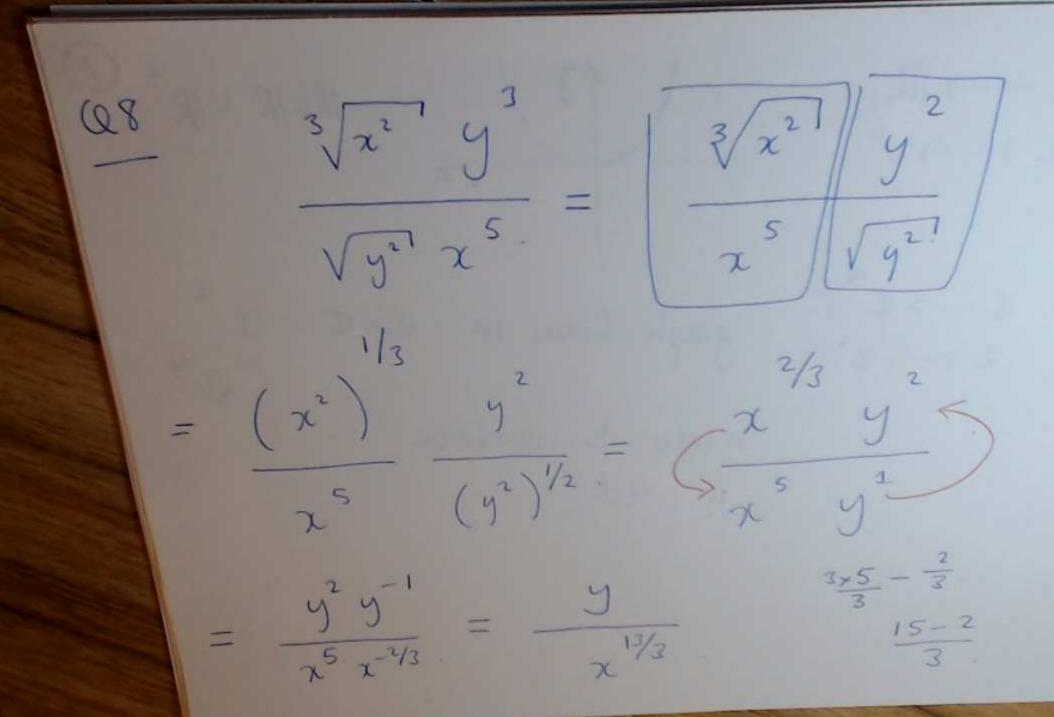
$$\frac{\frac{3}{2}}{\chi} = \frac{\frac{3}{2} - \frac{2}{3}}{\chi} = \frac{\frac{9}{6} - \frac{4}{6}}{\frac{6}{6}}$$

$$\frac{3\times 3}{3\times 2} - \frac{2\times 2}{3\times 2}$$

$$\frac{9}{6} - \frac{4}{6}$$







Warning

$$A = -2$$

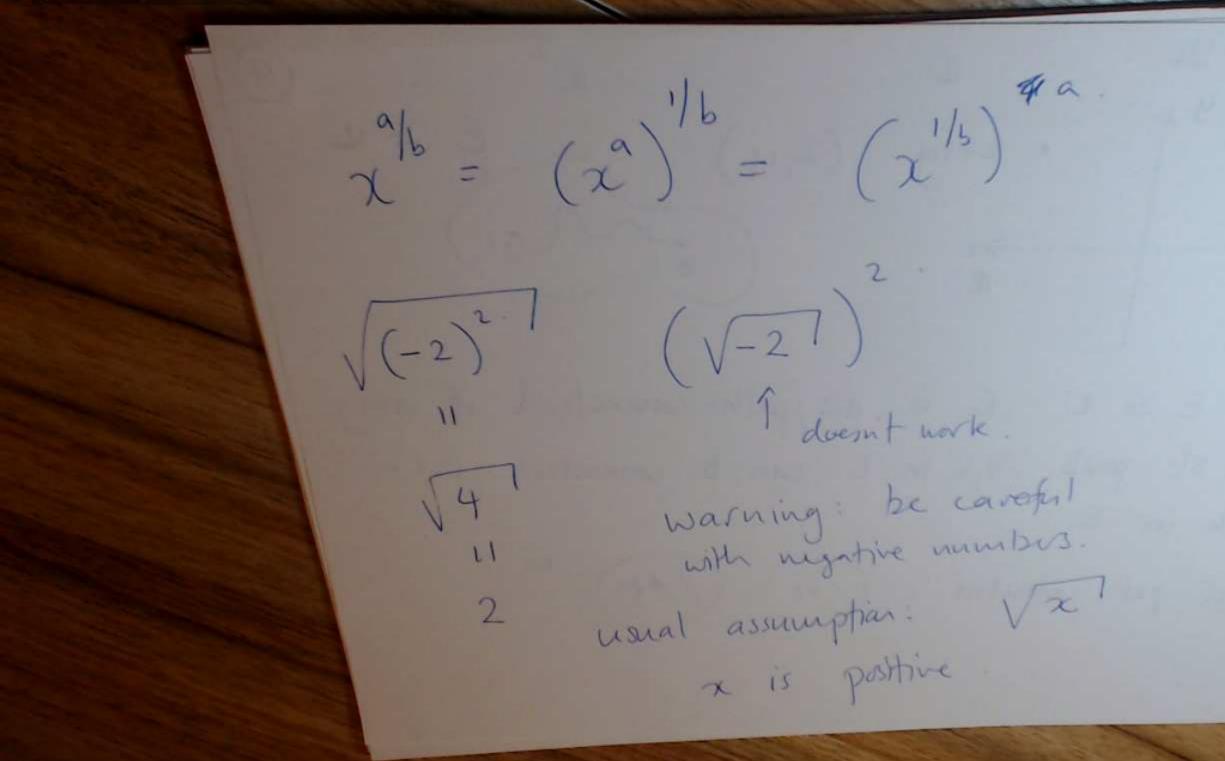
 $(y^2) = y$

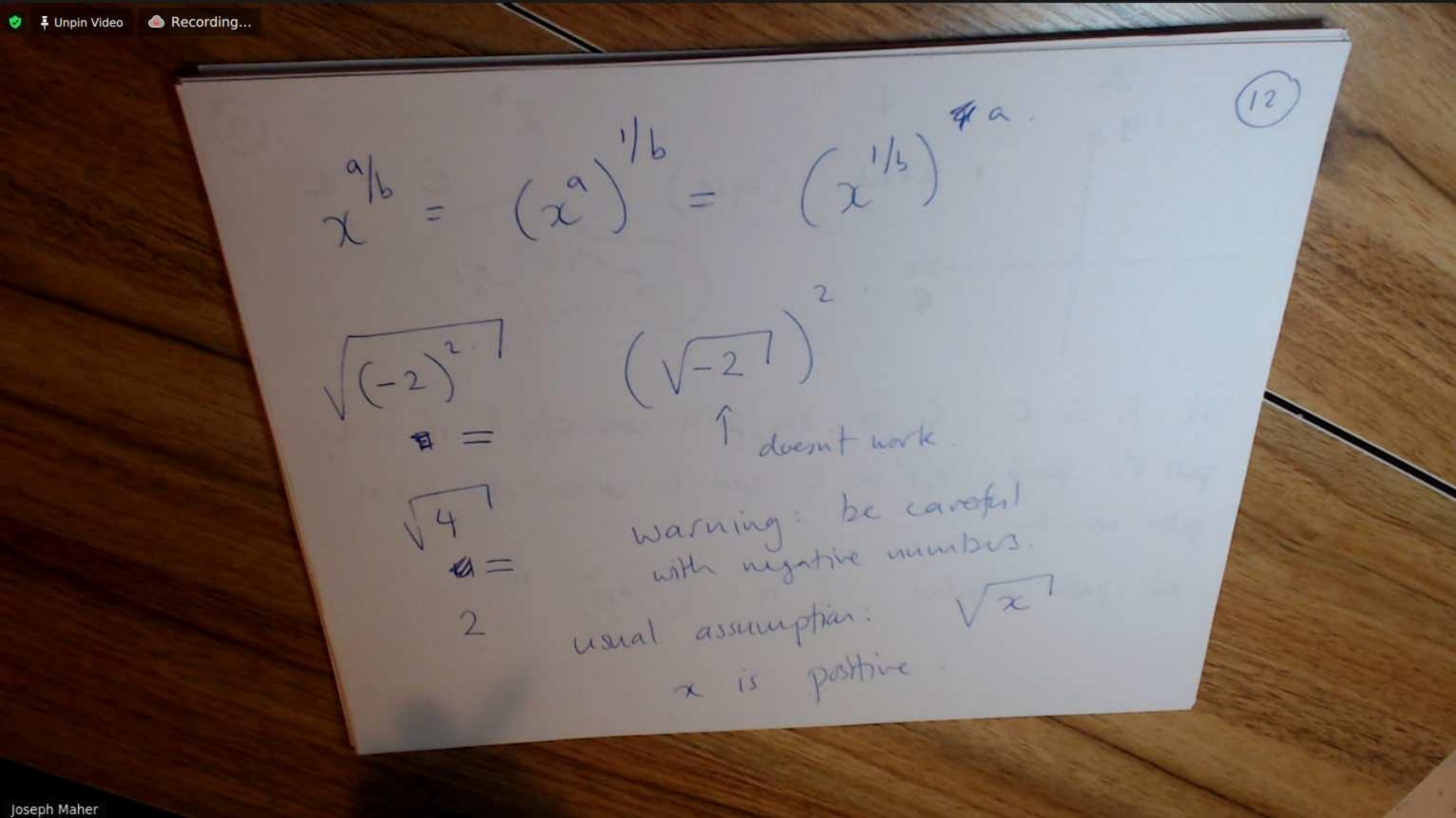
$$\left(\begin{pmatrix} (-2)^2 \end{pmatrix}\right)^{1/2}$$

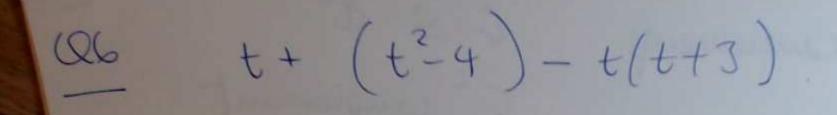
$$(4)^{1/2} = 2 \neq -2$$

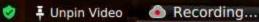
be careful with negative numbers











• Recording...

011

$$(x+1)(x-2) = 4$$

$$x(x-2)+1(x-2)$$

$$\chi^2 - 2x + x - 2$$

$$\chi^2 - \chi - 2$$



$$(x-1)(x^{2}+x-2).$$

$$(x^{2}+x-2)-1(x^{2}+x-2).$$

$$x^{3}+x^{2}-2x-x^{2}-x+2$$

$$x^{3}-3x+2.$$

$$x^{2}+x^{2}-2x$$

$$x^{3}-3x+2.$$

$$x^{2}+x^{2}-2x$$

$$x^{2}+x^{2}-2x$$

$$x^{2}+x^{2}-2x$$

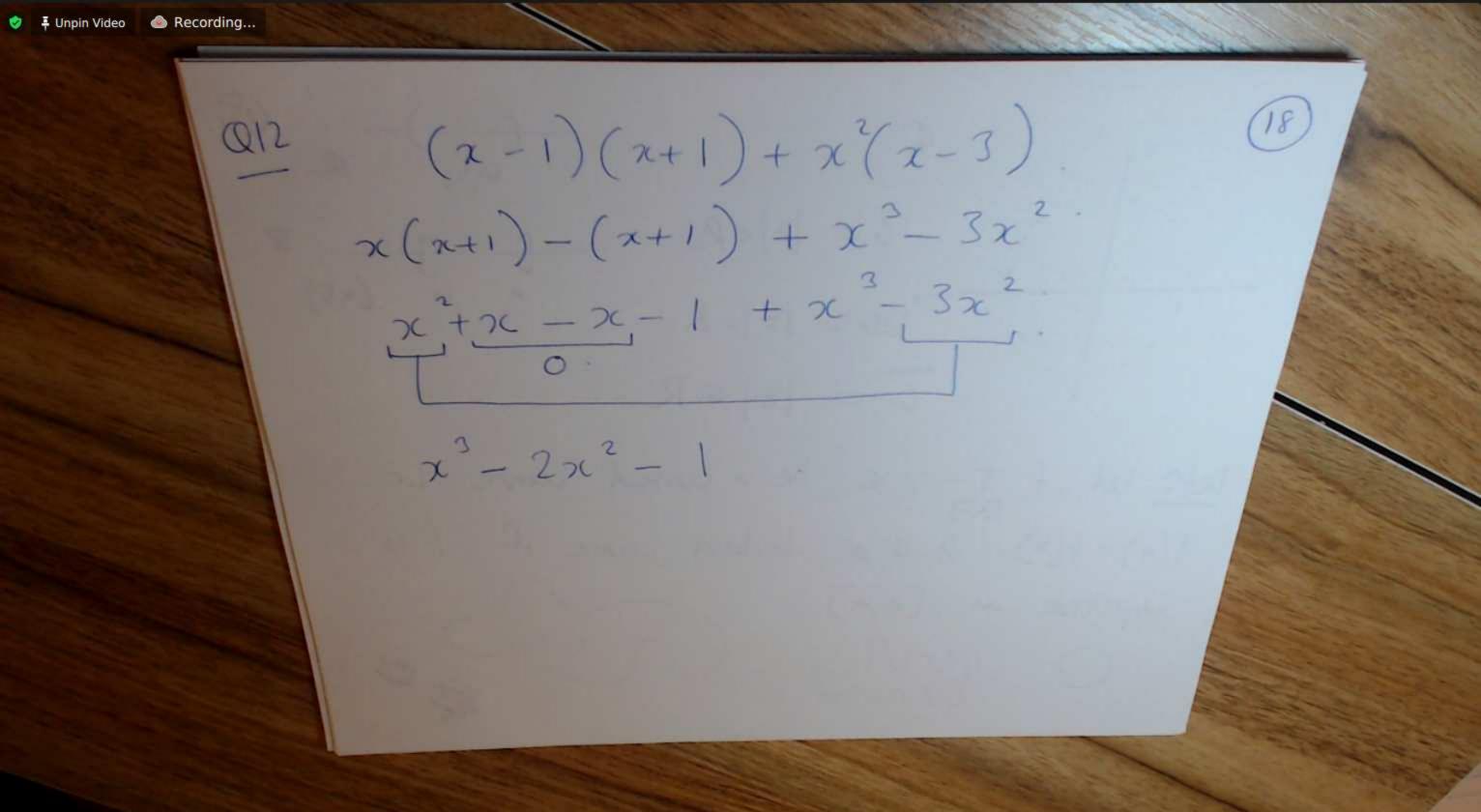
$$x^{2}+x^{2}-2x$$

$$x^{2}+x^{2}-2x$$

$$x^{2}+x^{2}-2x$$

$$x^{2}+x^{2}-2x$$

$$x^{2}+x^{2}-2x$$



Common denaminator (20) (x+5)(x+3)

$$\frac{1}{(x+5)} \times (x+3)$$

$$= (x+5) \times (x+3)$$

$$\frac{\chi \times (\chi + 5)}{(\chi + 3) \times (\chi + 5)}$$

$$(245)(245)$$
 $-\frac{2(2+5)(2+5)}{(2+3)(2+5)}$

$$(x+3)(x+5)$$

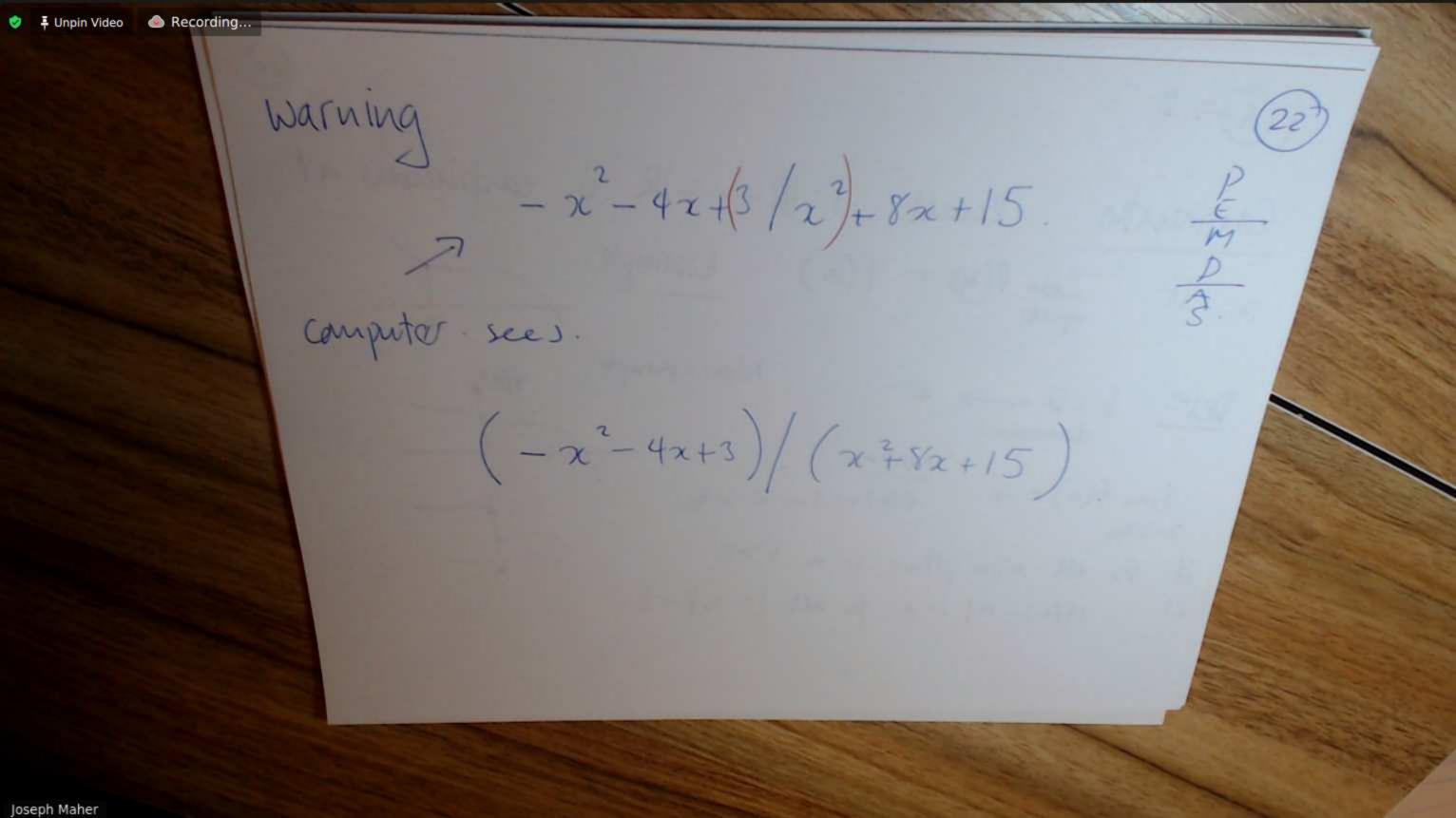
x+3-x-5x

(x+3) (x+5)

$$\frac{-x^{2}-4x+3}{(x+3)(x+5)}$$

$$= \frac{1}{2^{2}+8x+15}$$

$$\frac{4 \pm \sqrt{28}}{-2}$$



QIY

1 + 1 + (mman devaminator. (4+1).

(23)

$$\frac{(u+1)x(u+1)}{1x(u+1)} + \frac{u}{u+1} = \frac{x(u+1)}{x(u+1)} = \frac{(u+1)}{x(u+1)}$$

$$\frac{u^2 + u + u + 1}{u + 1} + \frac{u}{u + 1} = \frac{u^2 + 3u + 1}{u + 1}$$

(u+1) x 1 1 x(u-1) (U+1) × U-1 Common denaminator (u+1)x(u-1) (u-1) (u+1)

(U+1) x 1 (u+1)x(u-1) (u+1)(u-1)

Comman denaminator (u+1) (u+1)