(1) $\alpha \in [0, \frac{\pi}{2}]$ 2 cm² 2 + cm α - 1 = 0 7 / / => U= Cos ~ 2 m + m - 1 = 0 $\frac{1}{2} \frac{1}{4} \frac{1}{4} \frac{1}{2} \frac{1}{4} \frac{1}{2} \frac{1}{4} \frac{1}$ (3) 2 - 1 => 2 = 180 -> sind = 0 60 d = 1/2 => d= 60° -> pidz 13

Py=x²+2x door o

reclite door o = rico 9/4

=> y= $\frac{9}{4}$ x

y-coordinant support? $\frac{9}{4}$ x = $\frac{9}{4}$ - $\frac{8}{4}$ = $\frac{1}{4}$ = $\frac{9}{4}$ - $\frac{8}{4}$ = $\frac{1}{4}$ = $\frac{9}{4}$ =

3) max app reduthoek L × 3 ? L 2 120 - 18B L=144-18B 0 = L.B = 144.B - 18 B² maximu -> afgelende = 0 0'2 144-2-18 20 -> 144 z 36 B 2) B2 144.5 2 4.5 2 80

=> L = 144 - 18.6 = 144 - 18.4 = 144 - 72 = 72

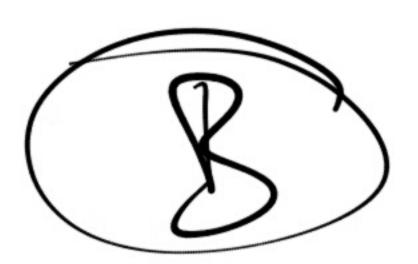
0 = L, B = 72. 20 = 1440

$$\frac{T}{M} = \frac{3}{2} \text{ en } \frac{T/2}{M-4} = \frac{7}{8}$$

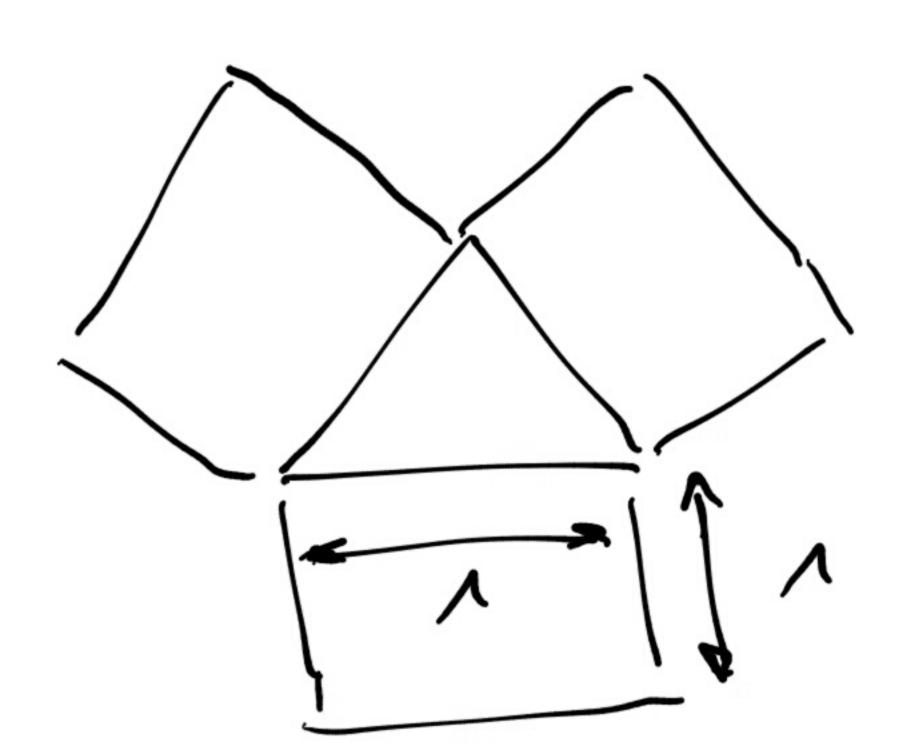
$$2T = 3M \begin{cases} 8T_2 = 7(M-4) \\ 4T_2 = 7M-28 \end{cases}$$

$$4\left(\frac{3}{2}M\right) = 7M-88 \Rightarrow M = 88$$

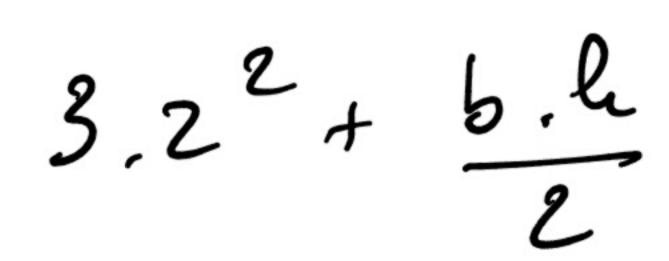
$$6M = 7M-88 \Rightarrow M = 88$$

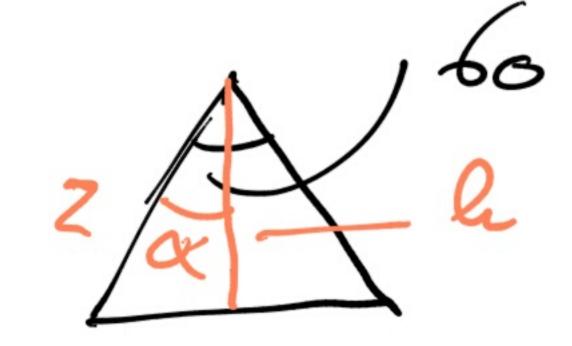






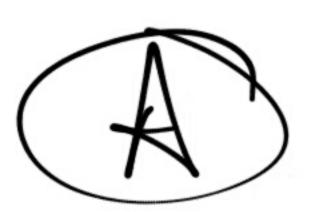
Totale
appendante?

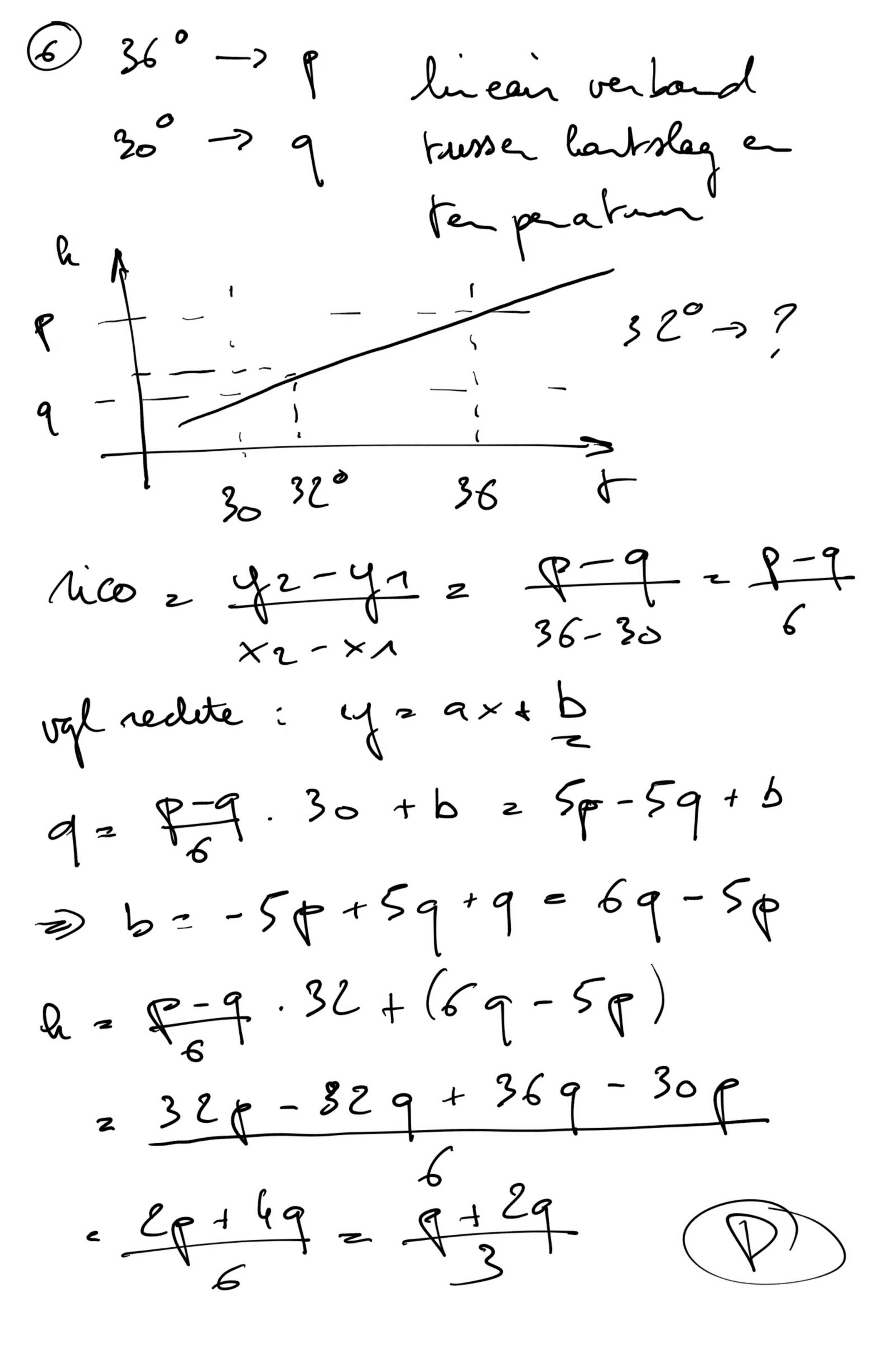


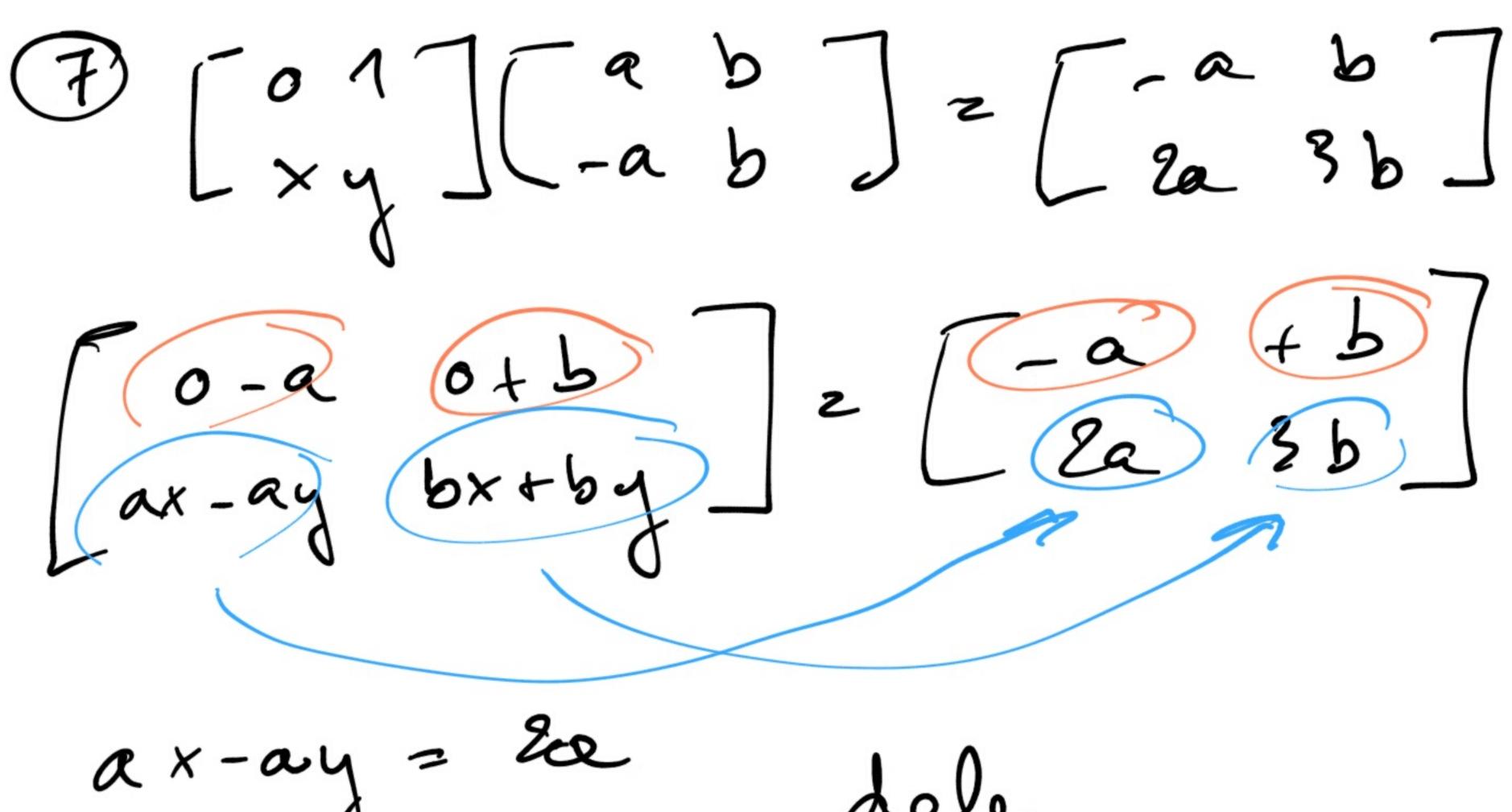


$$k = z.65 \propto$$
 $k = 1.65 30^{\circ}$
 $k = 1.65 30^{\circ}$

$$=\frac{\sqrt{3}}{4}\left(1+4\sqrt{3}\right)$$







$$ax-ay=3b$$

$$bx+by=3b$$

 $f(x) = ln(e^x + 2)$? Singent ræklige in x= lu(2) en de rechte mot vgl yz lu(2). 6 horisotale lyn f(ln(2)) 2 ln(e^{ln2}+2) 2 ln 4 2 2 ln 2 e = = = 2 dy dy du dr 2 ex
dr 2 (lun) 2 1
le $\frac{dy}{dx} = \frac{1}{e^{x} + 2} \cdot e^{x} = \frac{1}{2}(x)$ $\frac{1}{2}(\ln(2)) = \frac{e}{e^{2} + 2} = \frac{2}{4} = \frac{1}{2} =$ y=ax+b => 2 lul = 1. lul + b $\Rightarrow \frac{4}{2} \ln 2 - \frac{1}{2} \ln 2 = \frac{3}{2} \ln 2$ $y=\frac{1}{2}x+\frac{3}{2}lu2$ (-Bu2, Part) $\frac{5x}{2} = \frac{1}{2} = \frac{1$ (9) f(x) = x2, l x q(x)=2x2-5x+1 RC $\beta(\Lambda, \beta(\Lambda))$ \perp P(q, g(a))(a) R(1) 2 1. C. 1 20 g(x) = 2x lux + 1. x² = 2xlux + x (1/1) 2 2, 1 h 1 + 1 = 0 + 1 = 1= lig => 1 -> nico=-1 g'(x) = (4x - 5) = -1=> 4a-5z-1=> 4a=-115 => a = 1 q(1) = 2-1 -5.1 +1 = 2-5+1=-2

 $(5) \left\{ (x) = \left| 5 - \left| 3 - x \right| \right|$ =) æltrigd + =) min = 0 $f(x) = 0 \rightarrow |5 - | \pm 5|$ $3-x=\pm 5$ $3-(-2) \rightarrow x=-2$ $3-8 \rightarrow x=+8$ maxime als 13-21=0 Co altyd + > mi = 0 => max als x=3 (B) Goer extrem i 12.