A) 
$$\int_{0}^{1} (x) = \frac{4x}{2+x^{2}}$$
 extrama  $\Rightarrow \int_{0}^{1} (x) = 0$ 

$$\int_{0}^{1} (x) \left(\frac{f(x)}{g(x)}\right)^{2} = \frac{1-1-g^{1}}{g^{2}}$$

$$\int_{0}^{1} (x) \left(\frac{2+x^{2}}{2}\right) \left(\frac{-(4x).(2x)}{(2+x^{2})^{2}}\right)^{2}$$

$$= \frac{8+4x^{2}-8x^{2}}{(2+x^{2})^{2}} = \frac{8-4x^{2}}{(2+x^{2})^{2}} = 0$$

$$\Rightarrow 8-4x^{2} = 0 \Rightarrow x^{2} = \frac{8}{4} \Rightarrow x=\pm \sqrt{2}$$

$$\Rightarrow x=\sqrt{2}$$

$$\frac{x+1}{2y+1} = 1 = \frac{x+2}{2y+1} = 3$$

$$\frac{x+1}{2y+1} = 9$$

$$\frac{x+1}{x+2} = 9$$

$$\frac{x+1}{x+2} = 3$$

$$\frac{x+1}{2y+1} = 9$$

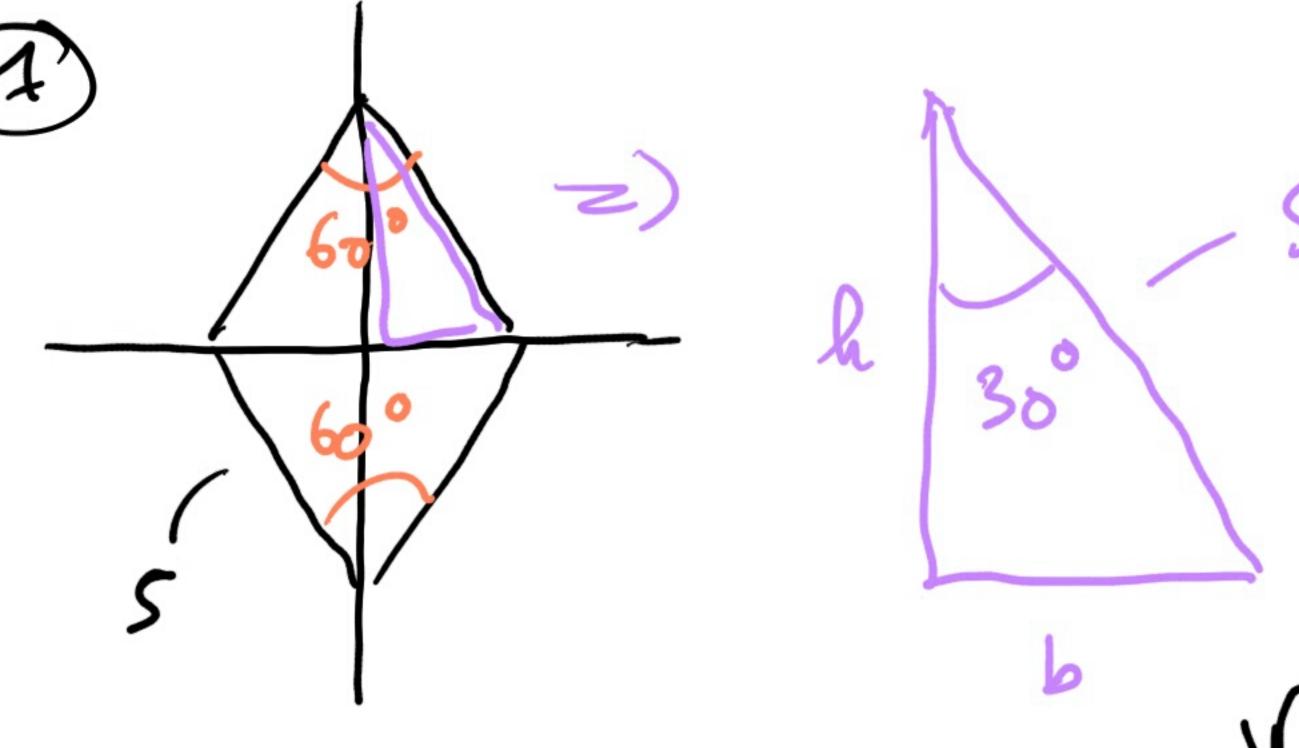
$$\frac{x+1}{x+2} = 2y+1$$

4) 
$$4 = 18$$
  $q = \frac{8}{10}$   $6.10 + \frac{x}{10}$   $\frac{8}{10}$   $\frac{x}{10}$   $\frac{x}{10}$ 

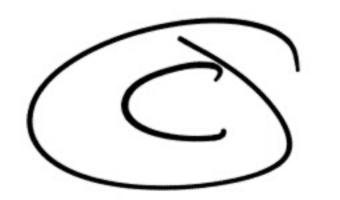
=> agumiddeld = 
$$\frac{84}{12}$$
 = 7

Syz 
$$3 \times 3 - 3 \times - 18$$
? opp and  $x$ 

pulpunter  $x = \frac{3 \pm \sqrt{3^2 - 4 \cdot 3 \cdot (-18)}}{2 \cdot 3}$ 
 $x = \frac{1}{2} \pm \frac{\sqrt{3^2 - 4 \cdot 3 \cdot (-18)}}{6}$ 
 $x = \frac{1}{2} \pm \frac{\sqrt{5}}{6} = \frac{1}{2} \pm \frac{\sqrt{25}}{6}$ 
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$$l_{1} = 5 cos 30^{\circ} = 5. \frac{\sqrt{3}}{2}$$
 $l_{2} = 5 sin 30^{\circ} = 5. \frac{1}{2}$ 



(8) (x, x) ER splorsnig va ? Den pvoldeen aan ? x2-10x+8=0 en x,2 x x2 2 1 2 2 + 1s2-4P X = D = V. N.P  $\left(\frac{2}{2} + \sqrt{\frac{2}{2}}\right)^2 + \left(\frac{2}{2} - \sqrt{\frac{2}{2}}\right)^2 = 1$ [2+12-4p+22+]+[2+12-4p-25]
[4+12-4p-25]  $\frac{5^{2}}{2} + \frac{5^{2} - 4p}{2} = \frac{25^{2} - 4p}{2} = \frac{25^{2} - 4p}{2} = 1$ 

14% beuleu T+ ? P(Tx (Pa) tokal test -> **160** Lo met parasiet -> total 216 test positief -> 12 =) 12 = 3 = 0,75 of 75%

2 log 2 2 1 - 2 2 2 2 2 2 4 2 2 2 4 2 2 2 4 (10) log x = a (=) 2a = x 2 læg 8 2 3 -> 23 28 2 læg 16 = 4 -> 24 2 16 # back × 2 /30 mi -> lamer x 2 18 uns - s loellest to z rosso back -> 24 um koelkast, danne learner ? hoeveel un # back > 106 1) 24 mn lællat N= No. 2× x= N= No. 23 2 ho 63. 23 = 80.63 2) N= No. 2x = 106 N280.163.2x=166 ≥ 2 leg (80.63.2×) = log (106) log (80) + log (103) + log (2x) = 6 log lo log8+log10+3log10+xlog2=6log10 log 8 + x log 2 = 2 log lo /x2/30 min 3 + x.1 = 2 log 16 z> per ums => x = -3 + Cog 10

⇒ aantal un 
$$-\frac{3}{2}$$
 + log lo

 $24 - \frac{3}{2}$  + log lo  $= \frac{48-3}{2}$  + log lo

 $= \frac{45}{2}$  + log lo  $= \frac{22.5}{2}$  + log lo

 $= \frac{45}{2}$  + log lo  $= \frac{22.5}{2}$  + log lo

Nort: 80.10°

Nort: 80.10°

No .10°

No .