

Sw2x=2mix asx l=4= 1 = sind + cood cood. Mind cood. Mind Sin2x + Cos2x = 1 (=) 2 z sind + cost z sind + cost 2 cost sind sin (2x) $\frac{1}{100} = \frac{1}{\cos(2\alpha - \alpha)} = \frac{1}{\cos(2\alpha - \alpha)} = \frac{1}{2} \left(2 \sin(2\alpha) \right)^{2} \left(2 \sin(2\alpha) + \cos(2\alpha) \right)^{2}$ $= \frac{1}{2} \sin(2\alpha) + \cos(2\alpha) + 2 \sin(2\alpha) = \frac{1}{2} \sin(2\alpha) + \cos(2\alpha) + \cos(2\alpha) = \frac{1}{2} \sin(2\alpha) + \cos(2\alpha) = \frac{1}{2} \sin(2\alpha) + \cos(2\alpha) + \cos(2\alpha) = \frac{1}{2} \sin(2\alpha) + \cos(2\alpha$ => 4 m² 2x = sin² 2 + cos² x + 2 m² d cos² 2 1 + sin(2x) = u => 4u²-u-1=0 -> u= -(-1) ± V(-1)²-4.4.(-1)¹ = 1+ 1/7 022290 => 06lex < 180 => sin 22 > 0! 2 x = 39,79° of 180° - 39,79° = 140,81° -> ~ = 70,105° le 2 l. sin 2 = 4. sin (70, 105°) = 3,76 m

3~ A -> 4+1 = 4 = 1 -> 4= 1 l² 2 (x x 1)² x (y x 1)² y 1 = 1 1 2 x 1 1 2 x 1 42 = x2 + 2x + 1 + x2 + 2x + 1 => 16x = x 2 (x2 + 2x + 1) + x2 + 2x + 1 = x4 + 2x3 + 2x2 + 2x + 1 30=x42x3-14x2+2x+1 Lo 4 wortels: x = -4,92, -0,86 en 2,76 waarde voor xals de laddan plat light! 42 /x = 1/36 = 2,76 mle 2 1+4 2 1+2,76 2 3,76 m

$$\ell^{2} = (x+\Lambda)^{2} + (y+\Lambda)^{2} \qquad \forall z \stackrel{1}{x} \rightarrow y+\Lambda = \frac{1}{x} + \Lambda \qquad \forall z = x+\frac{1}{x} \left\{ x > 0 \Rightarrow z > 0 \right\}$$

$$\ell^{2} = (x+\Lambda)^{2} + (\frac{1}{x} + \Lambda)^{2} = x^{2} + 2x + \Lambda + \frac{1}{x^{2}} + \frac{1}{x} + \frac{1}{x^{2}} + \frac{1}{x^{2}}$$