



0 4 12 W(x) = + 0 + 0 + 0 - x 2 x Andw: wenst bij productie van 4 tot 12 stuks verlies by " van o tot 4 "

en meer dan 12 stuks y2 = 108 calc, inversect $x_1 = 6$ $x_2 = 11,08...$ => by een productie van 6 tot 11 stuks e) calc, max X = 8,861 y = 202,81 -> De print is max by de productie van 9 stuks Jungley X-ap: 0 leb 15 0728 Jot 021-102 Jos 0 / x ex 3 x y + E x E - (0 O-XEE BXDELEX 0 = X 4 + 18 x 2 - 14 4 X = 0 0 = (UV - X 2) + 8 X 8 - (X (B) 3x 31 - 43 - 84 - 1x

(a)
$$180^{\circ} = \pi$$
 $1^{\circ} = \frac{\pi}{180}$
 $316^{\circ} 15^{\circ} 21^{\circ}$
 $180^{\circ} = \frac{\pi}{180}$
 $316^{\circ} 255833.$

(b) $316^{\circ} 255833.$

(c) $316^{\circ} 255833.$

(d) $316^{\circ} 255833.$

(e) $316^{\circ} 255833.$

(f) $316^{\circ} 255833.$

(g) $316^{\circ} 255833.$

(h) $316^{\circ} 255833.$

(e) $316^{\circ} 255833.$

(f) $316^{\circ} 255833.$

(g) $316^{\circ} 255833.$

(h) $316^{\circ} 255833.$

(e) $316^{\circ} 255833.$

(f) $316^{\circ} 255833.$

(g) $316^{\circ} 255833.$

(h) $316^{\circ} 255833$

(8) a) LL = sunta (1-sunts) - (1-sunta) sints = suned - suned sunes - sunes + suned sunes = sin2d - sin2 B = RL $LL = \left(\cos\left(\frac{\pi}{4} + \alpha\right)\right)^2$ $= \frac{(\cos \pi, \cos \alpha - \sin \pi, \sin \alpha)^2}{(2 \cos \alpha - \frac{12}{2} \sin \alpha)^2}$ $= \left(\frac{\sqrt{27}}{2}\right)^2 \left(\cos x - \sin x\right)^2$ $= \frac{2}{4} \cdot \left(\cos^2 \alpha - 2 \sin \alpha \cos \alpha + \sin^2 \alpha\right)$ = 1. (1-2 mina.cosa) c) csc2x + cot2x = cotx sunex muex 1+ cosex $= \frac{1}{2} \cos^2 x + \frac{1}{2} \cos^2 x$ $= \frac{2 \cos^2 x}{2 \sin x \cos x}$ d) sunx + sun3x + 2 sun2x Cosx + cos 3x + 2 cosex Sumpson & minex cos (-x) + & minex 2 cos 2x. cos (-x) + 2 cos 2x I sunex (cosx +1) = tan ex cos 2x (cosx+1)

9
$$\cos \pi + \cos 5\pi + \cos 9\pi + \cot 4\pi + \cot 4\pi$$

= $\cos \pi + \cos \pi$

= $\cos \pi + \cos 3\pi + \cos 3\pi + \cos (3\pi)$

The seminarial winkundarial in the seminarial in the

3-2i $= (3-2i)^2$ $= 9-12i+4i^2$ $= (5-12i)^2$ $= 9+4i^2$ $= (5-12i)^2$ $\frac{1}{3}$ $\frac{2i+5}{3-i}$ $\frac{1}{1+3i}$ $\frac{(2i+5)(1+3i)+(4+i)(3-i)}{(3-i)(1+3i)}$ $= \frac{2i + 6(2)^{\frac{1}{4}} + 5 + 15i + 12 - 4i + 3i - i^{2} = -1}{3 + 9i - i - 3(2) = -1}$ $= \frac{12+16i}{6+8i} = \frac{2(6+8i)}{6+8i} = 2$ Mr 9 p 30 $(x+yi)^2 = 1 + 216i$ $x, y \in \mathbb{R}$ x2+ 2xyi+ yi2 = 1+2161 i x2-y2 + 20cyi = 1+2167 i $\begin{cases} x^{2} - y^{2} = 1 \\ x y = 16 \end{cases} \Leftrightarrow \begin{cases} x^{2} - \frac{6}{x^{2}} = 1 \\ y = \frac{16}{x} \end{cases} \Leftrightarrow \begin{cases} x^{2} - \frac{6}{x^{2}} = 1 \\ y = \frac{16}{x} \end{cases}$ (1) (1) $x^4 - 6 - x^2 = 0$ N: x = 0 $T: X^{4}-X^{2}-6=0$ $t=X^{2}$ t2-t-6=0 D=25 ty = -2 - 12 - V (ty = 3 $x^2 = 2$ v $x^2 = 3$ ohrs $x = \sqrt{31} \Rightarrow y = \sqrt{61} = \sqrt{21}\sqrt{31} = \sqrt{21}$ $x = -13^7 \Rightarrow y = \sqrt{6}^7 = \sqrt{21+37} = -127$ De vkw xyn (V3 + 12 i) en (- 131 - 121 i)