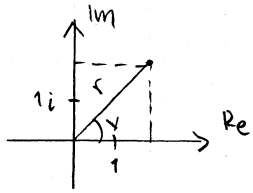
16

$z = 2 + 2i$

$r = \sqrt{2^2 + 2^2} = \sqrt{8} \approx 2{,}82$

$\tan v = \frac{2}{2} \Rightarrow v = 45°$



Svar: $z = \sqrt{8}\,(\cos 45° + i \sin 45°)$

$z = \sqrt{8}\,(\cos \frac{\pi}{4} + i \sin \frac{\pi}{4})$ om man arbetar i radianer

---

17

Sökta arean (inställd på radianer)

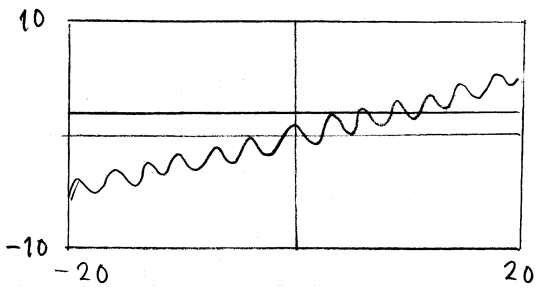
$$A = \int_0^9 (0{,}5x + \sin 2x + 3)\,dx = \left\{ \begin{array}{c} \text{Räknare} \\ \boxed{\text{OPTN}}\,\boxed{\text{F4}}\,\boxed{\text{F4}} \\ \text{CALL}\ \int dx \end{array} \right\} \approx 47{,}4 \ (\text{km}^2)$$

Svar: 47 km²

18

$$\underbrace{\frac{x}{5} + \cos 2x}_{y_1} = \underbrace{2}_{y_2}$$

Rita graferna till $y_1 = \frac{x}{5} + \cos 2x$ och $y_2 = 2$ och bestäm skärningspunkternas x-koordinater.



← SKISS!

Räknaren ger ($\boxed{\text{F5}}$ G-SOLVE $\boxed{\text{F5}}$ ISCT)

$x_1 \approx 5{,}97$

$x_2 \approx 6{,}71$

$x_3 \approx 8{,}76$

$x_4 \approx 10{,}23$

$x_5 \approx 11{,}62$

$x_6 \approx 13{,}78$

$x_7 \approx 14{,}39$

Svar: (a) 5,97

(b) 7 st