

1425

$$(a) 2 \sin x (\sin x - 0,3) = 0$$

$$\sin x = 0 \quad \text{eller} \quad \sin x - 0,3 = 0$$

Nullproduktmetoden!

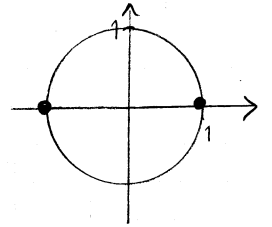
Fall 1:

$$\sin x = 0$$

$$x = 0^\circ + n \cdot 360^\circ \quad \text{eller} \quad x = 180^\circ + n \cdot 360^\circ$$

Kan sammentrækkes i

$$x = n \cdot 180^\circ$$



Fall 2

$$\sin x - 0,3 = 0$$

$$\sin x = 0,3$$

$$x \approx 17,46^\circ + n \cdot 360^\circ \quad \text{eller} \quad x \approx 180^\circ - 17,46^\circ + n \cdot 360^\circ$$

$$x \approx 162,54^\circ + n \cdot 360^\circ$$

Svar:  $x = n \cdot 180^\circ$  eller  $x \approx 17,5^\circ + n \cdot 360^\circ$  eller  $x \approx 162,5^\circ + n \cdot 360^\circ$

$$(b) 1,5 \cos x (0,5 - \cos x) = 0$$

$$\cos x = 0 \quad \text{eller} \quad 0,5 - \cos x = 0$$

Nullproduktmetoden!

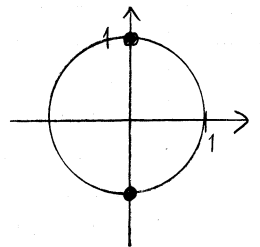
Fall 1

$$\cos x = 0$$

$$x = \pm 90^\circ + n \cdot 360^\circ$$

Kan sammentrækkes i

$$x = 90^\circ + n \cdot 180^\circ$$



Fall 2

$$0,5 - \cos x = 0$$

$$\cos x = 0,5$$

$$x = \pm 60^\circ + n \cdot 360^\circ$$

Svar:  $x = 90^\circ + n \cdot 180^\circ$  eller  $x = \pm 60^\circ + n \cdot 360^\circ$

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$$(c) 4 \cos x (2 \sin x - 5) = 0$$

(forts)

$$\cos x = 0 \quad \text{eller} \quad 2 \sin x - 5 = 0$$

Nullproduktmetoden!

Fall 1

$$\cos x = 0$$

$$x = \pm 90^\circ + n \cdot 360^\circ$$

Kan sammanfattas i

$$x = 90^\circ + n \cdot 180^\circ$$

Fall 2

$$2 \sin x - 5 = 0$$

$$\sin x = \frac{5}{2}$$

Saknar lösning!

$$\underline{\underline{\text{Svar: } x = 90^\circ + n \cdot 180^\circ}}$$

