slets quesch for) = (05 x

## C. Latihan 1

A. Schwit an lah soul-berikut ini!

Not that

$$= \left[ \left( -\cos x \right) - \left( \circ \right) \right]^{4}$$

$$\Rightarrow f(x+2\pi) = \cos^{4}(x+2\pi)$$

$$= [\cos(x+2\pi)]^{4}$$

$$= [\cos(x+2\pi)] - (\sin(x+2\pi))^{4}$$

$$= [\cos(x+2\pi)] - (\sin(x+2\pi))^{4}$$

$$= [\cos(x+2\pi)] - (\sin(x+2\pi))^{4}$$

$$= \cos^4 x = f(x)$$

$$\Rightarrow \xi(X+3\pi) = \cos^{4}(X+3\pi)$$

$$= (0)^{4} \times = |f(x)|$$

(0) 
$$3\pi = \cos(\pi + 2\pi)$$
  
=  $\cos(\pi + 2\pi)$ , ke?  
=  $\cos \pi$   
=  $-1$   
 $\sin 3\pi = \sin(\pi + 2\pi)$   
=  $\sin(\pi + 2\pi)$ , ke?  
=  $\sin(\pi + 2\pi)$ , ke?

\*\* Karena, hilai positif terkecil p dalam f(x+p)=f(x) disebut periode terkecil. atau disingkat periode f(x).

Maka, periode  $f(x)=\cos^4 x$  adalah  $\pi$ .