ANALISI 1 - LEZIONE 015

Note Title 10/10/2024

Esercizio 1 x siu (x²) x²siu x x³siu (xs)

Pari o dispari? D D

 $f(x) = x \sin(x^2) \qquad f(-x) = -x \sin((-x)^2) = -x \sin(x^2) = -f(x)$ 

 $f(x) = x^2 \sin x$   $f(-x) = (-x)^2 \sin (-x) = x^2 (-\sin x) =$ 

 $-x^2 siux = -\varphi(x)$ 

f(x) = x3 siu(x5) ~ f(-x) = (-x)3 siu ((-x)5)

 $z - x^3 Siu (-x^5)$ 

 $= - \times^3 \left( - \sin \times^5 \right)$ 

= P(x)

 $\times \cos(x^2)$   $\times^2 \cos \times$   $\times^3 \cos(x^5)$ 

€(x) = x3 cos (x5) ~ + (-x) = (-x)3 cos ((-x)5)

 $= - \times^3 \cos(- \times^5)$ 

 $= -x^3 \cos(x^5)$ pani  $= -\frac{1}{2} \cos(x^5)$ pani  $= -\frac{1}{2} \cos(x^5)$ 

anctan (cosx). siu (x5) cos (anctanx). siu x

 $g(x) = cos(anctaux) \cdot siu^5x$ 

 $g(-x) = \cos(\arctan(-x)) \cdot [\sin(-x)]^5$  uso anotair e sin D

=  $\cos(-\arctan x)[-\sin(x)]^5$  uso  $\cos p$ 

= cos (anctaux) · [-(siu(x))5]

= - cos(arctaix). 8125 x = - 9(x)





