

MMERO DI NEPLERO

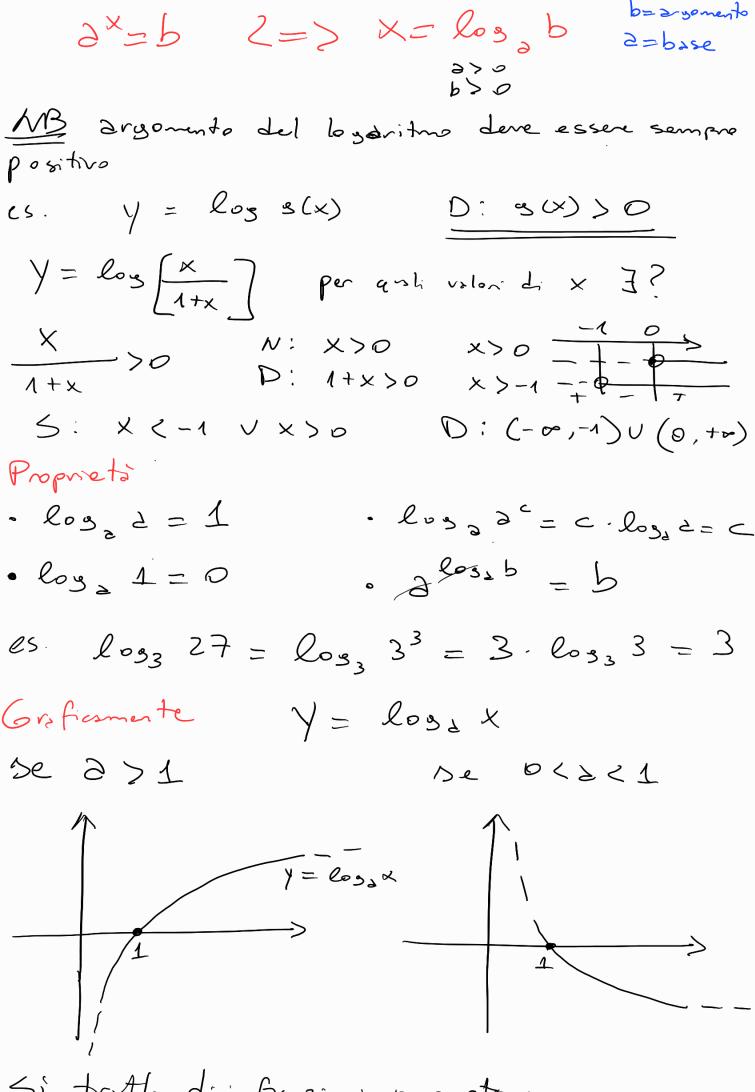


•
$$(9x)_{\lambda} = 9x \cdot \lambda$$

•
$$\left(\frac{b}{b}\right)^{x} = \frac{b^{x}}{b^{x}}$$

 $\forall X_1 < X_2 = > 2^{X_1} < 2^{X_2}$ $\forall X_1 < X_2 => 2^{X_1} > 2^{X_2}$

11 Le cresunte



Si tratta di funzioni menotone

$$e^{205} = 205 =$$

es.
$$log_2(7)$$
 $= log_2(7)$ $= log_2(7)$

es.
$$log \frac{8}{ss} = log 8 - log 55$$

= $log 2^3 - log (5.11)$
= $3 - log 2 - log 5 - log 11$

$$\log_{5} S = \frac{\log_{2} S}{\log_{2} h} = \frac{\log_{2} S}{\log_{2} 2^{2}} = \frac{\log_{2} S}{2}$$

Si investoro 8000 \neq ad un tasso annale del \leq % Quarto tempo ci viole per accumulare un capitale di 19000 \neq ?

10000 = 8000 $\left(1 + \frac{5}{100}\right)$

 $\frac{10000}{8000} = (1.05)^{4}$

$$\frac{s}{h} = (1,0s)^{n}$$

$$los \frac{s}{h} = los (1,0s)^{n}$$

$$h = \frac{los \frac{s}{h}}{los (1,0s)} \approx h.s7$$

EQUAZIONI LOGARITHICHE

$$2x-3>0$$
 $x>\frac{3}{2}$ dominio $2x-3>0$ $z=2$

$$2x - 3 = 1$$
 $2x = 6$ $x = 2$

.
$$log_3(x+1) - 2 log_3 3x = 2$$

$$log_3(x+1)-2\frac{log_3}{log_3}=2$$

$$log_3(x+1) - 2 \frac{log_3 3x}{log_3 3^2} = 2$$

D: (X+1 >0 X7-1) X70 X50

$$log_3(x+1) - log_3 3x = 7$$

$$log_3 \frac{x+1}{3x} = 2$$

$$\frac{x+1}{3x} = 9$$

$$x+1 = 9 \cdot 3x$$

$$x+1 = 27x$$

$$26X = 1$$

$$X = \frac{1}{26}$$

$$X = \frac{1}{$$

DISEQUAZION ESPONENZIALI

(5)
$$\left(\frac{2}{3}\right)^{X-2}$$
 $\frac{3}{2} > 1$ $\frac{3}{2} = \left(\frac{2}{3}\right)^{-1}$ $\left(\frac{2}{3}\right)^{X-2}$ $\left(\frac{2}{3}\right)^{-1} > 1$

$$\left(\frac{2}{3}\right)^{x-3} > 4$$

$$\left(\frac{2}{3}\right)^{x-3} > \left(\frac{2}{3}\right)^{0} < \Rightarrow x-3 < 0 \quad \boxed{x < 3} > 0$$

$$25^{x} - 13 \cdot 5^{x} + 30 > 0$$

$$5^{2x} - 13 \cdot 5^{x} + 30 > 0$$

$$5^{x} - 13 \cdot 5^{x} + 30 > 0$$

$$5^{x} - 13 \cdot 5^{x} + 30 > 0$$

$$\Delta = 13^2 - 6.30 = 49$$

$$y_{1,2} = \frac{13 \pm 7}{2}$$
 $\frac{13+7}{2} = \frac{20}{2} = 6$
 $y < 3 \ V \ y > 10$
 $S^{\times} < 3 \ V \ S^{\times} > 10$
 $los_{5} S^{\times} < los_{3} 3 \ V \ los_{5} S^{\times} > los_{3} 10$
 $X < los_{5} 3 \ V \ x > los_{5} 10$
 $los_{\frac{1}{2}} (s+3x) > 1$
 $los_{\frac{1}{2}} (s+3x) > 1$

