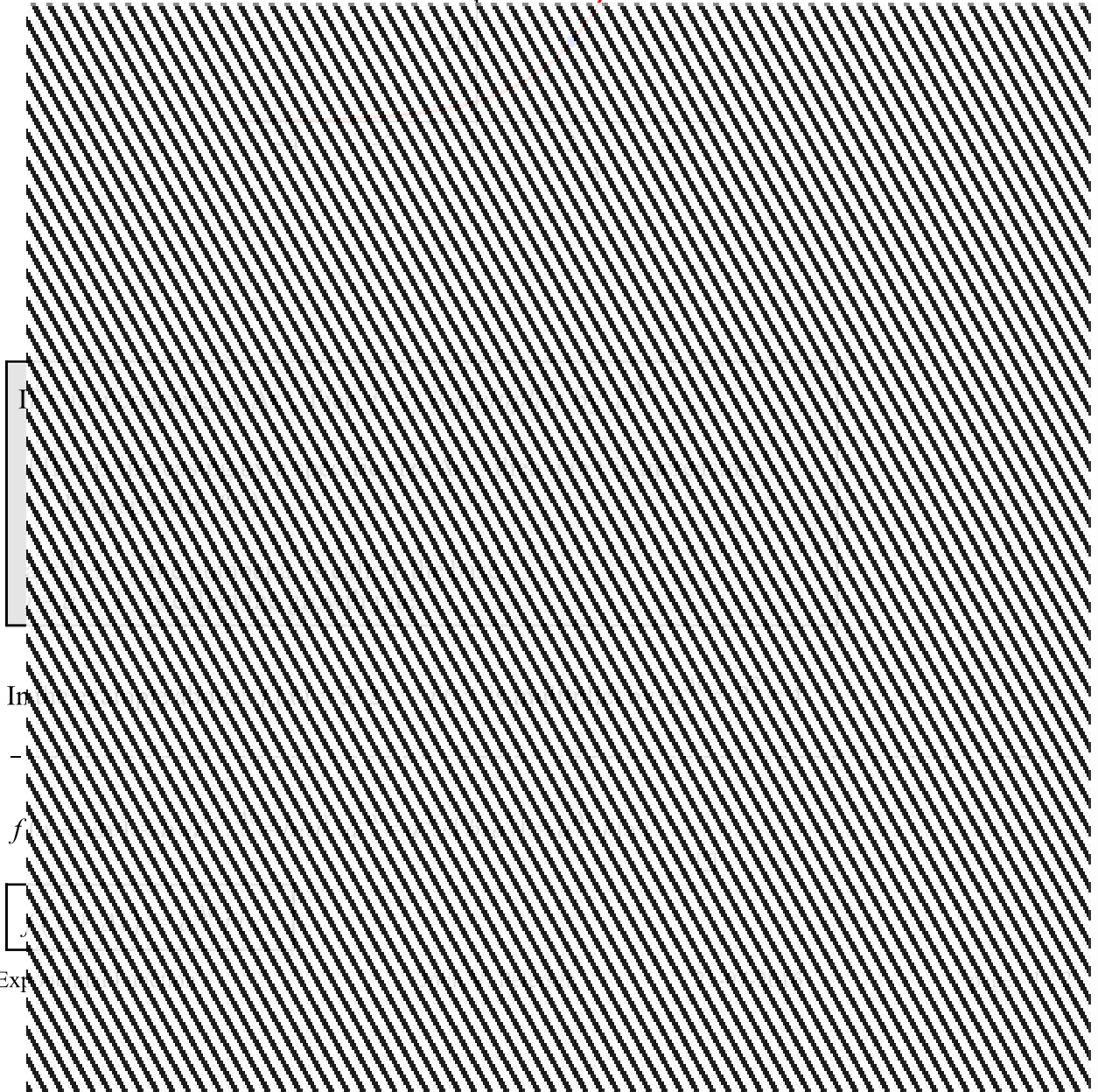
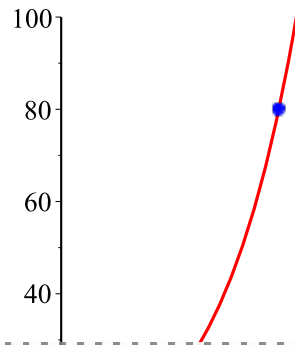


# Exponential function:

$$f(x) = b \cdot a^x$$

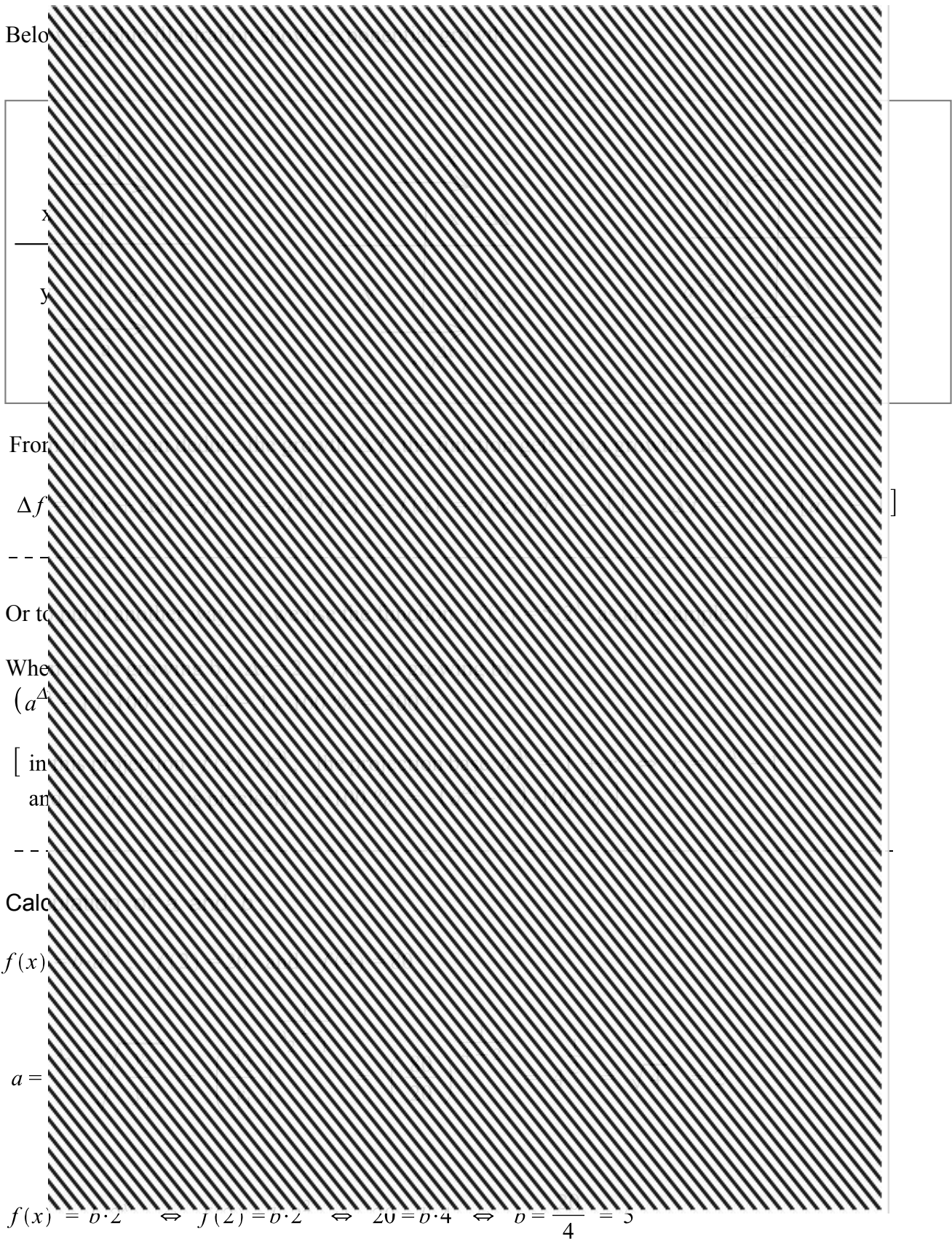
$b > 0$   
For  $0 < a < 1$   $f(x)$  is decreasing  
For  $1 < a$   $f(x)$  is increasing.  
 $Dm(f) = \mathbb{R}$       $Vm(f) = \mathbb{R}_+$

$$f(x) = 5 \cdot 2^x$$



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From page 1, we have:  $f(x + \Delta x) = a^{\Delta x} \cdot f(x)$  (1)



ie.  $a = 2$  and  $b = 5$  ;  $f(x) = 5 \cdot 2^x$