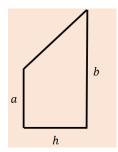
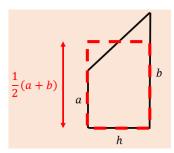
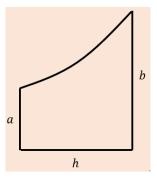
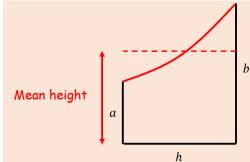
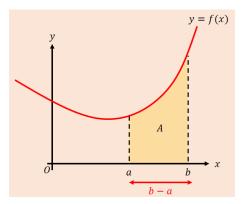
3B Mean Value of a Function

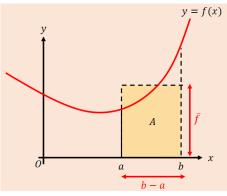












1. Find the mean value of $f(x) = \frac{4}{\sqrt{2+3x}}$ in the interval [2,6].

- 2. Given that $f(x)=\frac{4}{1+e^x}$ a) Show that the mean value of f(x) on the interval $[ln2,\ ln6]$ is

$$\frac{4ln\frac{9}{7}}{ln3}$$

b)	Use your answer to part a) to find the mean value of $f(x) + 4$ over the interval $[ln2, ln6]$
c)	Use geometric considerations to write down the mean value of $y=-f(x)$ over the interval $[ln2,ln6]$
In General:	
Vertical Transformations:	
Horizor	ntal Transformations: