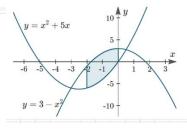
## Area bound by two functions Examples:



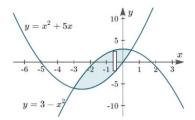
Find the area between the curves  $y=x^2+5x$  and  $y=3-x^2$  between x=-2 and x=0.

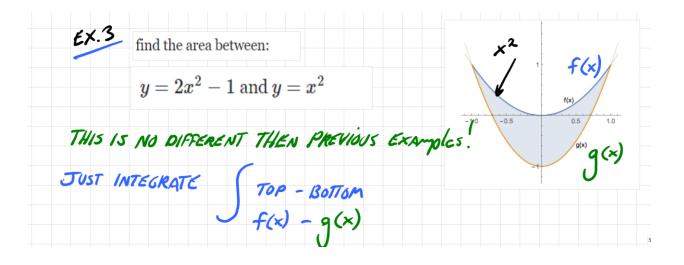


£x.2

Find the area bounded by the curves

$$y=x^2+5x$$
 and  $y=3-x^2$ .





Ex.4

. Determine the area of the region bounded by  $y=2x^2+10$ , y=4x+16, x=-2 and x=5.

- . THE OLD SWITCHEROD!
- . SOMETIMES THE "UPPER" AND LOWER"

FUNCTIONS SWAP .

INTERCEPTS:

 $4x + 16 = 2x^2 + 10$ 

