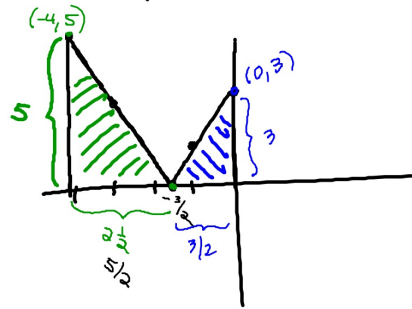


EVALUATE USING GEOMETRY

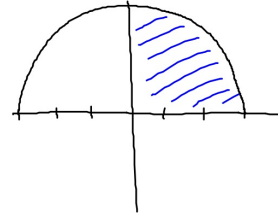
FIND THE ZERO:  $2x+3=0$   
 $x=-3/2$

①  $\int_{-4}^0 |2x+3| dx$



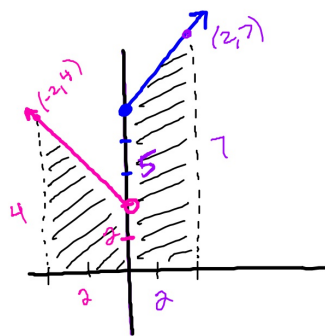
$A_{\Delta} + A_{\Delta}$   
 $\frac{1}{2}(\frac{5}{2})(5) + \frac{1}{2}(\frac{3}{2})(3)$   
 $= \frac{25}{4} + \frac{9}{4}$   
 $= \frac{34}{4}$   
 $= \boxed{\frac{17}{2}}$

②  $\int_0^3 \sqrt{9-x^2} dx = \frac{1}{4} \pi (3)^2 = \boxed{\frac{9\pi}{4}}$



③  $f(x) = \begin{cases} -x+2 & x < 0 \\ x+5 & x \geq 0 \end{cases}$

FIND  $\int_{-2}^2 f(x) dx$



$\frac{1}{2}(2)(4+2) + \frac{1}{2}(2)(5+7)$   
 $6 + 12$   
 $\boxed{18}$