

Name: \_\_\_\_\_  
AP Calculus Homework

Date: \_\_\_\_\_  
Ms. Loughran

1. Find the total area bounded by the  $x$ -axis and the curve  $y = x^2 - 3x - 10$  from  $x = -3$  and  $x = 8$ .
2. Find the area under the curve  $y = \cos x$  over the interval  $[0, \pi]$ .
3. Find the total area bounded by the  $x$ -axis and the curve  $y = 9 - x^2$  from  $x = 0$  and  $x = 3$ .