

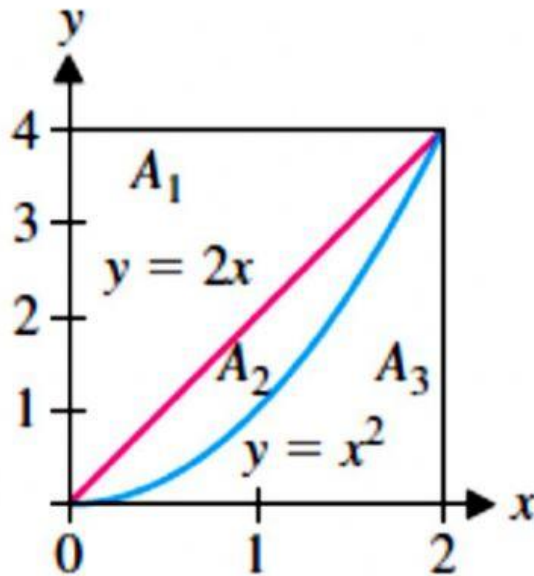
Mathematics Department  
2020/2021

Name:

**Areas Between Curves**

Date

In term of  $A_1$ ,  $A_2$  and  $A_3$  identify the area given by each integral.



(a)  $\int_0^2 (2x - x^2) dx$

(b)  $\int_0^2 (4 - x^2) dx$

(c)  $\int_0^4 (2 - \sqrt{y}) dy$

(d)  $\int_0^4 (\sqrt{y} - \frac{y}{2}) dy$