

NAME: _____ ID: _____ Section: _____

Exercise 1 (5 points)

Using three rectangles and left endpoints the area under the curve $y = x^2$ from 0 to 1 is approximately equal:

a/ $\frac{5}{9}$	
b/ $\frac{5}{27}$	
c/ $\frac{14}{27}$	
d/ $\frac{35}{36}$	
e/ $\frac{10}{27}$	

Exercise 2 (5 points)

Evaluate the integral $\int_0^{\pi} \frac{1 - \sin^2 x}{1 + \sin x}$ (show all your steps)

NAME: _____ ID: _____ Section: _____

Exercise 1 (5 points)

Using three rectangles and mid-points the area under the curve $y = x^2$ from 0 to 1 is approximately equal:

a/ $\frac{5}{27}$	
b/ $\frac{14}{27}$	
c/ $\frac{35}{108}$	
d/ $\frac{35}{36}$	
e/ $\frac{10}{9}$	

Exercise 2 (10 points)

Evaluate the integral $\int_0^{\frac{\pi}{2}} \frac{\sin x + \sin x \tan^2 x}{\sec^2 x} dx$ (show all your steps)

NAME: _____ ID: _____ Section: _____

Exercise 1 (5 points)

Using three rectangles and right endpoints the area under the curve $y = x^2$ from 0 to 1 is approximately equal:

a/ $\frac{10}{27}$	
b/ $\frac{35}{108}$	
c/ $\frac{14}{9}$	
d/ $\frac{14}{27}$	
e/ $\frac{35}{36}$	

Exercise 2 (10 points)

Evaluate the integral $\int_0^{\frac{\pi}{4}} \frac{\cos x + \cos x \cdot \cot^2 x}{\csc^2 x} dx$ (show all your steps)

