

Aisle : \_\_\_\_\_

pg. 566; 1, 3, 5, 6 Trapezoid only  
pg. 363 – 9-33 every other odd

Use  $n = 4$  subintervals to approximate the area under  $f(x)$  over  $[a, b]$  by the trapezoidal method. Sketch the graph with the trapezoids.

1.  $f(x) = \sqrt{x-1}; [2, 5]$

3.  $f(x) = \sin x; [0, \pi]$

5.  $f(x) = e^x; [1, 4]$

6.  $f(x) = \frac{1}{2x+1}; [0, 2]$

Evaluate

<p>9.</p> $\int x^8 dx =$  $\int x^{5/7} dx =$  $\int x^3 \sqrt{x} dx =$	<p>13.</p> $\int \left( x^{-3} - 3x^{\frac{1}{4}} + 8x^2 \right) dx$
<p>17.</p> $\int x^{1/3} (2 - x)^2 dx$	<p>21.</p> $\int \left( \frac{2}{x} + 3e^x \right) dx$
<p>25.</p> $\int \sec x (\sec x + \tan x) dx$	<p>29.</p> $\int \frac{\sin x}{\cos^2 x} dx$
<p>33.</p> $\int \left( \frac{1}{2\sqrt{1-x^2}} - \frac{3}{1+x^2} \right) dx$	