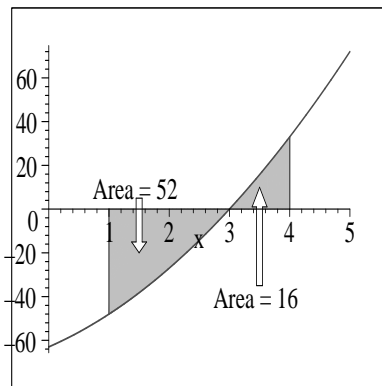


Quiz 14

MATH 139-02
Thursday, April 8, 2004

1. The graph of $y = f(x)$ is shown below. Compute $\int_1^4 f(x)dx$.



2. Use your graphing calculator to determine the area between the graphs of $f(x) = x$ and $f(x) = x^4$ between $x = 0$ and $x = 1$. Also sketch a graph of the region.
3. A forest fire covers 2000 acres at time $t = 0$. The fire is growing at a rate of $8\sqrt{t}$ acres per hour, where t is in hours. How many acres are covered 24 hours later?