Name: _____

1. Find the area under the graph of $y = \sqrt{x}$ between $x = 4$ and $x = 9$.

2. $\displaystyle\int_0^{\pi/3} \sec^2(x)\, dx =$

Name: _____

1. Find the area under the graph of $y = \cos(x)$ between $x = 0$ and $x = \frac{\pi}{3}$.

2. $\displaystyle\int_4^{16} \sqrt{x}\, dx =$