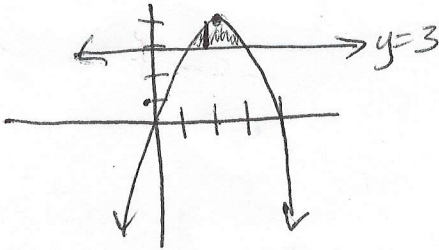
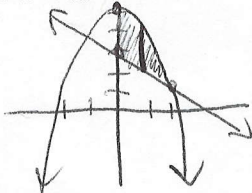


Chapter 6 Quiz Make-up

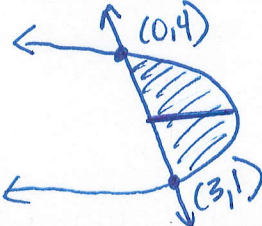
1. Find the area of the region enclosed by $y = 4x - x^2$ and $y = 3$.



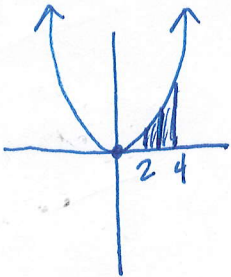
2. Find the area of the region enclosed by $y = 5 - x^2$ and $y = -x + 3$ between $x = 0$ and $x = 2$.



3. Find the area of the region enclosed by $x = 4y - y^2$ and $x + y = 4$.

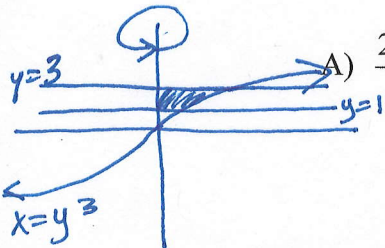


4. Find the value of the solid that is obtained when the region under the curve $y = x^4$ over the interval $[2, 4]$ is revolved about the x -axis.



- A) $\frac{261,632\pi}{9}$ B) $261,632\pi$ C) $\frac{\pi}{9}$ D) 9π E) $\frac{261,632\pi}{18}$

5. Find the value of the solid that is obtained when the region enclosed by the curves $x = y^3$, $x = 0$, $y = 1$, $y = 3$ is revolved about the y -axis.



- A) $\frac{2,186\pi}{7}$ B) $2,186\pi$ C) $\frac{\pi}{7}$ D) 7π E) $\frac{2,186\pi}{14}$

6. Use the method of washers to find the volume of the solid that results when the area of the region enclosed by $y = x^2$, $y = 1$, and $x = 0$ is revolved about the x axis.

