## **Areas + Volumes Quiz**

- 1. Let  $f(x) = x^{3/2}$  and  $g(x) = x^{2/3}$ . Find the area between these two curves.
- 2. Find the area between  $f(x) = x^2$  and  $g(x) = x^4 x^2$  when x is positive.
- 3. Find the volume of the solid of revolution created by rotating the region bounded by  $y=1, y=\sqrt{\sin x}$ , when  $0 \le x \le \frac{\pi}{2}$  about the x-axis.

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