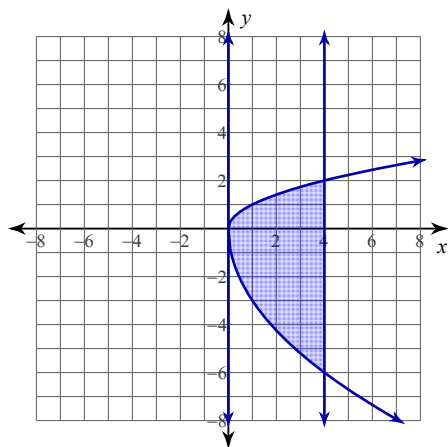


Practice Quiz - Area Between Curves 7-2

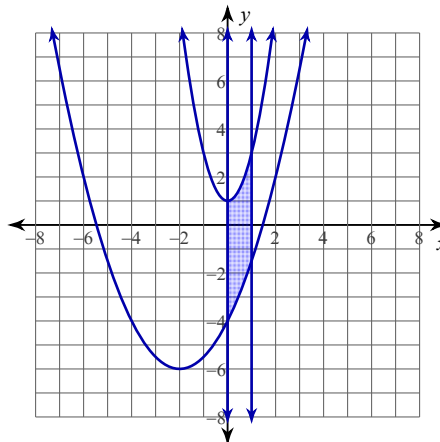
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For each problem, find the area of the region enclosed by the curves.

1) $y = \sqrt{x}$, $y = -3\sqrt{x}$,
 $x = 0$, $x = 4$



2) $y = 2x^2 + 1$, $y = \frac{x^2}{2} + 2x - 4$,
 $x = 0$, $x = 1$



3) $y = 2x^2 - 4x + 4$, $y = -2x^2 + 1$,
 $x = 0$, $x = 2$

4) $y = 2\sqrt{x}$, $y = \frac{x^2}{4}$

$$5) y = -x^3 + 6x, y = -x^2$$

$$6) y = \sin x, y = -\sin x,$$

$$x = -\frac{3\pi}{4}, x = \pi$$

$$7) y = 2\cos x, y = -2\cos x,$$

$$x = -\frac{\pi}{2}, x = \frac{5\pi}{6}$$

$$8) y = -\sin x, y = 2\sin x,$$

$$x = -\frac{\pi}{2}, x = \frac{2\pi}{3}$$

