

**Math 53: Quiz 7**

November 2, 2016

1. (3 points) The following expression computes the area of a region. Sketch the region and compute its area by switching to polar coordinates.

$$\int_{-2}^{-1} \int_{-x}^{\sqrt{8-x^2}} dy dx + \int_{-1}^1 \int_{\sqrt{2-x^2}}^{\sqrt{8-x^2}} dy dx + \int_1^2 \int_x^{\sqrt{8-x^2}} dy dx.$$

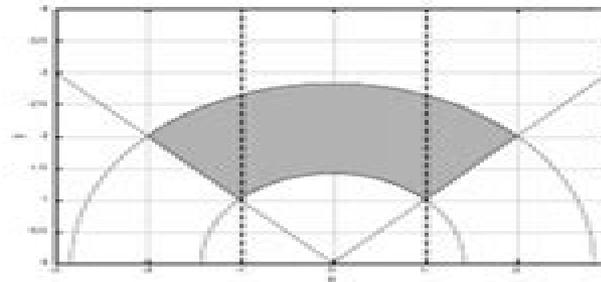


Figure 1

The area is therefore given by

$$\begin{aligned} A &= \int_{\pi/4}^{3\pi/4} \int_{\sqrt{2}}^{\sqrt{8}} r dr d\theta \\ &= \int_{\pi/4}^{3\pi/4} \left[ \frac{r^2}{2} \right]_{\sqrt{2}}^{\sqrt{8}} d\theta \\ &= \int_{\pi/4}^{3\pi/4} 3 d\theta = \boxed{\frac{3\pi}{2}} \end{aligned}$$

# Holt Geometry 7b Quiz

**Robert R. Redfield**



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