

Suppose  $R$  is the shaded region in the figure. As an iterated integral in polar coordinates,

$$\iint_R f(x, y) dA = \int_A^B \int_C^D f(r \cos \theta, r \sin \theta) r dr d\theta$$

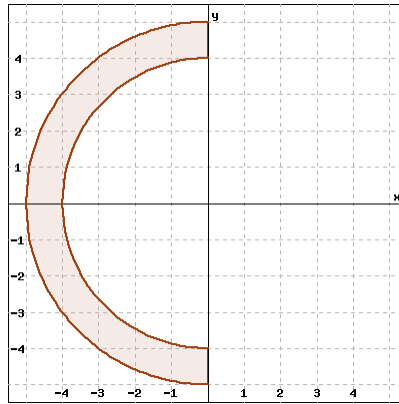
with limits of integration

$$A = \boxed{\phantom{00}}$$

$$B = \boxed{\phantom{00}}$$

$$C = \boxed{\phantom{00}}$$

$$D = \boxed{\phantom{00}}$$



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$$A = \boxed{\pi/2}$$

$$B = \boxed{3\pi/2}$$

$$C = \boxed{4}$$

$$D = \boxed{5}$$

