

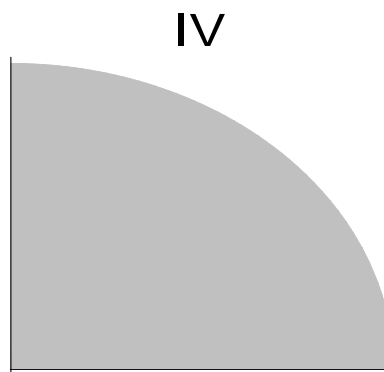
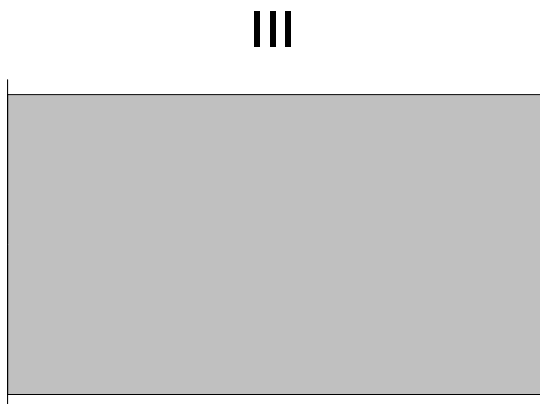
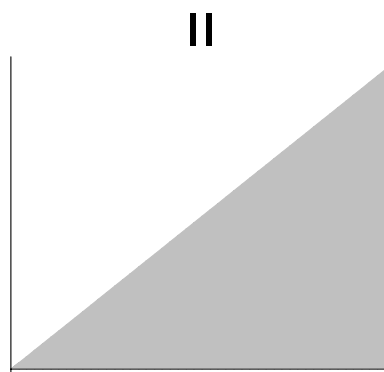
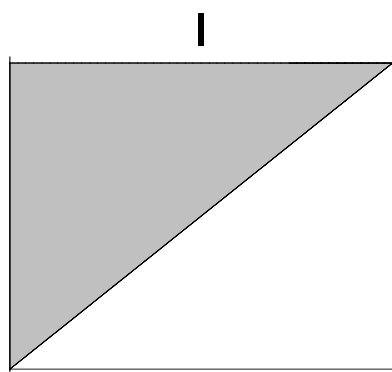
Match the following double integrals with their region of integration, the same region can be used more than once. The x -axis is horizontal and the y -axis vertical in each plot.

$$A = \int_0^{\pi/2} \int_0^1 x^2 + y^2 dy dx$$

$$B = \int_0^1 \int_0^x dy dx$$

$$C = \int_0^{\pi/2} \int_0^1 r \cos \theta + r \sin \theta dr d\theta$$

$$D = \int_0^1 \int_y^1 dx dy$$



Answers: A is III, B is II, C is IV and D is also II.