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Question 1) $\int \int \sin(2\theta) / 2r$

$$u = 2\theta$$

$$du = 2d\theta$$

$$\int (\sin u / 8) =$$

$$-\cos(u) / 8 \Big|_{2\pi}^0$$

Question 2)

$$\int \int (e^{x^2} + y^2) dx dy$$

$$i = \pi/2 + e\pi/2$$

madf