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Latin 1 Tutor kuy 7

$$F(r(t)).r'(t) = (2\cos^2 t - 1.\sqrt{2}\cos t - 4.\sqrt{2}\sin^2 t, 6).(\cos 2\cos t, -\sqrt{2}\sin t)$$

$$= 2\cos^2 t - 8\cos t \sin^2 t - 6\sqrt{2}\sin t$$

$$= (1 + \cos(2t)) - 8\cos t \sin^2 t - 6\sqrt{2}\sin t$$

$$\int cut f. ds = \int f. dr$$
=  $\int_{0}^{2R} (1 + cor(2t)) - 8 cost sin^{2}t - 6 \sqrt{2} sin t dt$ 
=  $(t + \frac{1}{2} sin(2t) - 2 sin^{4}t + 6 \sqrt{2} cost) Re \Big|_{0}^{2R} = 2R$