Quiz 16 (Problems)

1. Use polar coordinates to evaluate the integral $\iint_R x\sqrt{x^2+y^2}\,dA$ where R si the region bounded by the semicircle $x = \sqrt{36-y^2}$.

Quiz 16 (Answers)

1. (Math-252 Quiz 16)
   $\int_{-\frac{\pi}{2}}^{\frac{\pi}{2}} \int_0^6 r\cos\theta\sqrt{r^2}r \; dr \; d\theta = 648$