

18.022 Recitation Quiz
26 November 2014

1. (6.2.12 in *Colley*) Use Green's theorem to find the area enclosed by the hypocycloid $\mathbf{x}(t) = (a \cos^3 t, a \sin^3 t)$, $0 \leq t \leq 2\pi$. (We found the length of the hypocycloid on 15 October). Feel free to leave an unevaluated definite integral in your answer.

