Quiz Problem 6

Problem. Let Y be a continuous random variable with probability density function give
by
$f(y) = \begin{cases} cy^2(1 - y^4) & 0 \le y \le 1, \\ 0, & \text{else} \end{cases}$
for some unknown value $c \in \mathbb{R}$. What is the value of c that makes f a PDF?

