STAT 3250 - Fundamentals Of Probability Quiz 10

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1. Using integration, evaluate: $\int_0^{0.4} \frac{\Gamma(7)}{\Gamma(4)\Gamma(3)} y^3 (1-y)^2 dy$

2. Let $Y = X^2$ find the pdf of Y when the distribution of X is $N(0,1)$