

c. Suppose now we randomly select m points in this forest. Find the distribution of  $2\lambda\pi\sum_{i=1}^{m}X_{i}^{2}$  and the distribution of  $2\lambda\pi\sum_{i=1}^{m}(Y_{i}^{2}-X_{i}^{2})$ .

Facous THAT (using moment generating function properties) 2172%

21 U { (X1, Xi) ~ X5m

## Assignment Project Exam Help

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$$S \sim \Gamma(m, n)$$
,  $t \sim \Gamma(m, n)$ 

Let  $U = \frac{S}{S+t}$ 

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 $S = \frac{S}{S+t}$ 
 $S = \frac{S}{S$