Example of pintly distributed Gamma random variables

Suppose X and Y have joint density $f_{X,Y}(x,y) = \frac{8575}{2} \times y^2 e^{-5x-7y}$ = 0 afterwise

Find the density of X and the density of Y.

8575 \times \frac{1}{2} \times \frac{2}{2} \times \frac{1}{2} \ti

= 0 otherwise.