MECH 6325 HWY 6) f_{XY}(x,y) = \(6e^{-2x} e^{-3y}, x>0, y>0 0, or nerwise X = E[x] = Sofo Jxfxy(x,x) dxdy =500000 6xe=2xe-34dxdy = 65° e34 [4(214) e2xp67 $=\frac{6}{4}\int_0^{\infty}e^{-3y}dy$ = \frac{62}{42} \left(-1 \, \frac{3}{2} \right) = \frac{1}{2} $\overline{y} = \int_{0}^{\infty} 6y e^{-2x} e^{-3y} dx dy = \int_{0}^{\infty} e^{-2x} dx \int_{0}^{\infty} y e^{-3y} dy$ |y= = =

