HOMEWORK - 5

5. B.

a)
$$\gamma(x,y) = 6(x-y)^2 m$$
 should not use the same $\sum_{x,y} (x,y) = \int_{0}^{y} (x,y) dx dy = \int_{0}^{y} ($

b) $f_{x}(x) = \int f(x,y) dy = \int 6(x-y)^{2} dy =$ $= 6 \left[\frac{1}{2} \times^{2} - 2 \times y + y^{2} dy = 6 \left[x^{2} y - \frac{x}{4} \right]^{2} + \frac{3}{3} \right]^{1} =$ 1/3 $=G\left[\times^{2}-\times+4\right]$ Ty(y)=6 Pby y2-y+ A because of simularity 1) 1×14 (×14) = 1(x,4) = 5 (x-2×4+42] 1-(4) [x-4+1/3] 1 ×1×(4/x) = 1(x,4) = 6 x2-2×7+42 = 6 x2-x+1/3=6 x2 = (x2 xy+y2):(22x+1)=1+x -x + x 41 -2xy+x+12-1 - 2xg +29-24 + x + y2-1 2x +2y2+2y-2-24 e) Rejection sampling uniformly generate num