$$\begin{cases}
x \\ (x) = \int_{0}^{x} \frac{1}{9} (x+y) dy & b < x < 2 \\
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0 & (x)$$

$$P(Y \leqslant 2 \mid X=1.5) = P \quad olson$$

$$F_{Y \mid X=x} = \frac{f(x,y)}{f_{X}(x)}$$

$$f_{y|x=1.5} = \frac{0.(1.5+y)}{\frac{9}{9}(3x1.5^2 + 4x1.5 + 1)}$$

$$= 2(y+1.5)$$

$$-4.5+6+1$$

$$= 0.1454(y+1.5)$$

$$\rho = \int_{0}^{2} f_{Y|X=1.5} dy = 0.1739 \left[\frac{y^{2}}{2} + 1.5 y \right]_{0}^{2}$$
$$= 0.145 i \left[2 + 3 \right] \approx 0.7273$$

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My | X=1.5 =
$$\int y \cdot \int y | \chi = 1.5 dy$$

2.5

= $\int y \cdot 0.1454 (y + 1.5)$

= $0.1454 \left[\frac{y^3}{3} + \frac{1.5}{2} \frac{y^2}{2} \right]_0^{2.5}$

= $0.1454 \left[\frac{2.5^3}{3} + 1.5 \frac{2.5^2}{2} \right]$

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