







$$\begin{array}{c} 0.08 & 0.09 & 0.235 & 0$$



((
	19. 0. $ y _{x}(y _{x}) = \frac{f(x,y)}{f_{x}(x)} = \frac{k(x'+y')}{ 0 _{x}x'+0.5}$	
	PXW (x/y) = k(x+y) = 380000	\/
	b. $p(Y \ge 25 X = 22) = \int_{25}^{35} \frac{1}{11} x(y 21) y$ $= \int_{25}^{35} \frac{k((22)^2 + y^2)}{ p k((22)^2 + 2x^2)} dy$ $= \int_{25}^{35} \frac{k((22)^2 + 2x^2)}{ p k((22)^2 + 2x^2)} dy$	
	- 1.776	
	P (Y ≥ 25) = 130 to (w) oby) = 0.549 C. E(Y X = 22) = 100 y .tr x (w) 22>x dy	
	$= 21.3729$ $E(Y^{2} x=2^{2}) = \int_{20}^{30} 0^{2} \cdot \int_{Yk} (b 2^{2}) dy$	
	= 652.0286 V(Y X=22)= E(Y2 X=22)-[E(Y X=22)]	
	$= 8.240$ $6 = \sqrt{(Y X=22)} = 2.87$	
		75
	□ 1	



24. Let m(x,y) be the number of individuals of who handle the message

probability.

$$p(x,y) = \frac{1}{6x5} = \frac{1}{30}$$

$$= \sum_{i=1}^{k} \sum_{j=1}^{k} m(x_i, y_j) \cdot \frac{30}{30}$$

26.
$$E_{t} = \sum_{0}^{5} \frac{1}{5} (3x + 14y) \cdot p(x, y)$$

$$Con(x', L) = \sum_{x \in \mathcal{X}} (x - E(x))(n - E(x))b(x \cdot n)$$



$$= 15.4$$

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$$33 \cdot E(XY) = E(X) \cdot E(Y)$$

$$Cov(XY) = \sum_{k=0}^{\infty} (X - E(X))(y - E(Y)) \gamma (k, y)$$

$$= E(XY) - E(X) \cdot E(Y)$$

$$= (Cv(XY)) = Cov(XY) = 0$$

$$35 \cdot 0 \cdot Cov(0X + b, CY + d)$$

$$= E(0X + b) \cdot C(Y + d) - E(0X) \cdot E(CY)$$

$$= C(C(XY) - E(X) \cdot E(Y)$$

$$= C(XY) - E(X) \cdot E(Y)$$

$$= C(XY) - E(XY) - E(XY) - E(Y) \cdot E(Y)$$

$$= C(XY) - E(XY) - E(XY) - E(Y) - E(Y) \cdot E(Y)$$

$$= C(XY) - E(XY) - E(XY) - E(Y) - E(Y) - E(Y)$$

$$= C(XY) - E(XY) - E(XY) - E(Y) - E$$