Brova 2 - Estatistica	
Matheus Peixoto Ribiro Vieira - 22. L. 4104	NATIONAL PROPERTY AND
$\frac{1) \times 1}{P(x)} \times \frac{1}{2} \times \frac{2}{3} \times \frac{3}{4}$	
P(x) C C/2 C/3 C/4	
i) c+ = + = 1	
12c+6c+4c+3c=1	
25	
$\frac{25_{\text{C}}=1}{12}$	
250=12	
$c = \frac{12}{25} = 0.48$ R: $c = \frac{12}{25} = 0.1$	
$(x) = \sum_{x \in \mathcal{X}} (x)$	
E(x)=C+2.6/2+3163+4.6/4	
E(x) = 4c	
$E(x) = 4.12_{35}$ E(x) = 48/25 = 1.92 $R: 48/25 = 1.92$	
$E(x) = \frac{1}{25} = \frac{1}{92}$ K: $\frac{1}{25} = \frac{1}{92}$	
bour (x) = [(x2) - [E(x)]2	
$(x) = \sum_{i=1}^{\infty} x_i^2 \cdot p(x_i) - \left[E(x_i)\right]^2$	
bur (x) = 12.C + 22.C/2 + 32.C/3 + 42.C/4 - (48)25)2	
bor(x) = C + 2C + 3C + 4C - 2304	
625	
bar(x)=10c-2304625	
Vor(x)=10. 12 - 2304 R: Par (x)=696 =	
50 (50) = 516	1,1136
$\frac{\text{for}(x) = 120 - 2304}{25 - 625}$	
	(hill-
Tour(x) = 3000 - 2304 = 696 = 1,1136	(tilibra

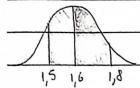
(1	/)
	/		

2) p=0,75 q=0,25 m=3					
		U			
X	PCx)				
0	0,0156	$P(x=0)={3 \choose 0} 0.75^0 0.25^3=0.0156$			
7	0,1406	P(x=1)=(3) 0,751 0,252 = 0,1406			
2	0,4219	P(x=2)=(2)0,752.0,25=0,4219			
3	10,4219	P(x=3)=(3)0,753.0,25°=0,4219		
a) p	$(X \neq T)$	= P(x=0) + P(x=	7)		
P	(x ≈ T)	= 0,0156 +0,140	6		
q	(X = T)	= 0,1562	R: P(x = 1) = 0,1562		
H P	(X > 2) =	P(x=2) + P(x=3)			
P((x = 2)=	0,4219 + 0,4219			
P	(x>2)	0,8438	R: P(x > 2) = 0,8438		
3)	2 petroles	nos por dia	$y=s$ $b(x,y)=e^{-y}-x$		
			×!		
P()	x > 3) =	I-b(x=3) = 1-	P(x=0) - P(x=1) - P(x=2) - p(x=3)		
	-				
_P(x	(=0) = 6	$e^{-2} \cdot 2^{\circ} = 0,1353$	1-0,1353-0,2707-0,2707-0,1804		
		01	1-0,8571		
PCX	=1)ze	1! = 0,2707	0,1439		
P(x	(=2)= e	$-2.2^{2} = 0,2707$	P(x>3) ~ 0, 1459		
		2	4 0		
p(x	P(x=3) = e ² · 2 ³ = 0,1804 Aprobabilidade e de 14,29%				
		6			
(tilib	ra]	And the second s			



4) X~N(1,6;0,32)

a) entre 1,50 e 1,80

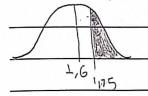


$$3 = \frac{1.5 - 1.6}{0.3} = \frac{-0.33}{0.3}$$
 $3 = \frac{1.8 - 1.6}{0.3} = 0.67$

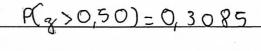
P(-0,33 -240,67

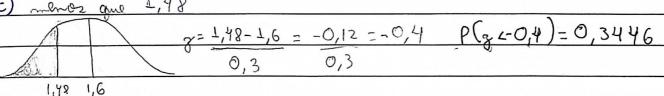
0,1293 + 0,2486

b) mais que 1,75

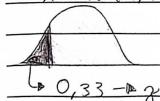


3/=	1,75-1,6	7	(,50
ď	(A) 2			





5) X ~ N(9,4;4,22)



$$-0,44 = x - 9,4$$

R: 7,552 tenelodas

