faithte & do	al de Caión	01 / 08 / 21
Instituto Feder		
	dealilidade e Estatútica	
	go Tedovatto	
	a do Amaral	
	Semana 15	
	EDP:	
1 4	C - C - C - C - C - C - C - C - C - C -	A A A A
	x12, se 0 L x 4	1 ;
	3-x14, me 1/x, 4	
	114 , se 2 6 x 6	
	lo , caso contrás	
$E(X) = \int_0^3 x f(x)$		(3
	$dx + \int_{1}^{2} x \cdot \left(3 - \frac{x}{4}\right) dx +$	J2 1 dx
$= \begin{bmatrix} 2c^3 & 1 \\ \hline 6 & 0 \end{bmatrix}$	$\begin{bmatrix} 3x^{2} - x^{3} & + x^{2} \\ 2 & 12 \end{bmatrix} + \begin{bmatrix} x^{2} & 3 \\ 3 & 12 \end{bmatrix}$	
$= 1^3 + 3$	. 2 - 2 - 3 - 3 1 - 4 13	+ 32 - 22
6	2 12 2 12	8 8
= 1 + 9	$\frac{-4}{12} + 5 = \frac{113}{24} = 4$	,408.
6 2,	12 8 24	M

spirali\*

01 / 08 / 21  $E(\chi^2) = \int_0^3 x^2 f(x) dx$  $= \int_{1}^{4} x^{2} \cdot \frac{x}{2} dx + \int_{1}^{2} x^{2} \cdot \left(3 - \frac{x}{4}\right) dx + \int_{2}^{3} x^{2} \cdot \frac{1}{4} dx$  $= \left[ \frac{x^{4}}{4} + \left[ \frac{x^{3}}{x^{3}} - \frac{x^{4}}{x^{4}} \right]^{2} + \left[ \frac{x^{3}}{x^{3}} \right]^{3}$  $= 1^4 + 2^3 - 2^4 - 1^3 + 1^4 + 3^3 - 2^3$ 8 16 12 48

sniral;