

Statistics

Lecture 13



Feb 19-8:47 AM

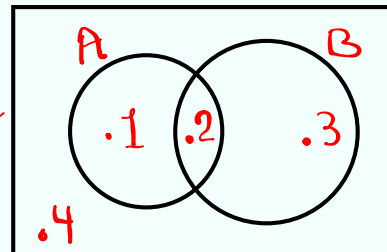
Given $P(A) = .3$, $P(B) = .5$, $P(A \text{ and } B) = .2$

1) Construct Venn Diagram.

$$.3 - .2 = .1$$

$$.5 - .2 = .3$$

Total = 1
✓



2) $P(A \text{ only}) = \boxed{.1}$

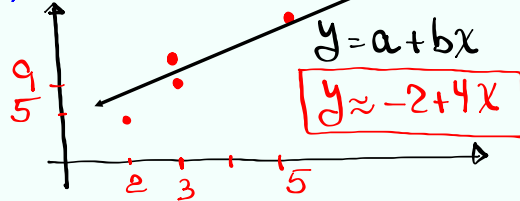
3) $P(A \text{ only or } B \text{ only})$
 $= .1 + .3 = \boxed{.4}$

Oct 20-10:34 AM

Consider the chart below

x	y
2	5
3	9
3	10
5	16

1) Scatter Plot



2) Equation of the regression line. $x \rightarrow L1, y \rightarrow L2$

use LinReg($a+bx$) with $L1 \neq L2$.

$$a = -1.632, b = 3.579$$

3) Find r & r^2

$$r^2 = .981 \approx 98\%$$

$$r = .991$$

Oct 20-10:38 AM

Complete the chart below

class limits	Class m.p	Class F	Rel. F
60 - 72	66	8	.267
73 - 85	79	12	.400
86 - 98	92	7	.233
99 - 111	105	3	.100

$$\frac{f}{n} = \frac{f}{30}$$

1-Var Stats

$L1 \neq L2$

use class m.p & class F to find

$$\bar{x} = 81.1\bar{6}$$

$$S = 12348$$

$$S^2 = \frac{26533}{174}$$

$$n = 30$$

$$\approx 81$$

$$\approx 12$$

VARs

5: Statistics

3: Sx

x^2

Math

1: $\frac{\square}{\square}$

Enter

Oct 20-10:45 AM