Answer on Question #67808 – Math – Statistics and Probability

Question

If the two regression cofficients are 0.8 and 0.6 the cofficient of correlation is -0.69

Solution

Since both regression coefficients must have the same sign and the sign is determined by r (and vice versa), the coefficient of correlation is

$$r = \sqrt{b_x b_y} = \sqrt{0.8 * 06} \approx 0.69$$
, not -0.69 .

The regression coefficient as well as the coefficient of correlation shows if a correlation is positive or negative. So they must have the same sign.

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