# 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

$$
r=\sqrt{b_{x} b_{y}}=\sqrt{0.8 * 06} \approx 0.69, \text { not }-0.69
$$

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.

