

1. Aufgabe:
(1)
(2)
$$\overline{X} = \frac{1}{5} \times (2+3+4+5+6) = \frac{1}{5} \times 20 = 4$$

 $\overline{Y} = \frac{1}{5} \times (4+5+6+7+8) = \frac{1}{5} \times 30 = 6$

$$y = \frac{1}{5} \times (4 + 5 + 6 + 7 + 8) = \frac{1}{5} \times 30 = 6$$

$$-3 \Gamma = \frac{(2 - 4) \times (4 - 6) + (3 - 4) \times (5 - 6) + (4 - 6)}{(6 - 4) \times (4 - 6)} \times (5 - 6) + (4 - 6)$$

$$-2 = \frac{(2-4)\times(4-6)+(3-4)\times(5-6)+(4-4)\times(6-6)+(5-4)\times(7-6)+(6-4)\times(8-6)}{\sqrt{(2-4)^2+(3-4)^2+(4-4)^2+(6-4)^2}\times((4-6)^2+(6-6)^2+(6-6)^2+(7-6)^2+(8-6)^2)}$$

$$= \frac{-2\times(-2)+(-4)\times(-4)+0\times0+4\times4+2\times2}{\sqrt{(4+4+0+4+4)\times(4+4+0+4+4)^3}} = \frac{40}{\sqrt{600}} = \frac{40}{10} = \frac{4}{10} = \frac{4}{$$

y = = (5+4+3+2+4) = = 3 > 15 = 3

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a)
$$\bar{X} = \frac{1}{5} (1+2+3+4+5) = \frac{1}{5} \times 15 = 3$$

 $\Rightarrow_{\Gamma} = \frac{(-2) \times 2 + (-4) \times 4 + 0 \times 0 + 4 \times (-4) + 2 \times (-2)}{\sqrt{(4+4+0+4)(4)} \times (4+4+4)} = \frac{-40}{\sqrt{400}} = \frac{-40}{40} = -4$