Example 8.8: 
$$K = -\frac{1}{G(5)H(5)} \Rightarrow K = -\frac{\sigma^2 + 10\sigma^2 + 10\sigma}{\sigma^2 + 1.5}$$

$$\frac{dK}{d\sigma} = -\frac{(3\sigma^2 + 22\sigma + 10)(\sigma + \frac{3}{2}) - \sigma^2 + 10\sigma^2 - 10\sigma}{(\sigma + \frac{3}{2})^2}$$

$$\frac{dK}{d\sigma} = -\frac{3\sigma^2 + \frac{3}{2}\sigma^2 + 22\sigma^2 + 33\sigma + 10\sigma^2 - 10\sigma}{(\sigma + \frac{3}{2})^2}$$

$$\frac{dK}{d\sigma} = -\frac{3\sigma^2 + \frac{3}{2}\sigma^2 + 22\sigma^2 + 33\sigma + 10\sigma^2 - 10\sigma}{(\sigma + \frac{3}{2})^2}$$

$$\frac{dK}{d\sigma} = -\frac{3\sigma^2 + \frac{3}{2}\sigma^2 + 23\sigma^2 + 23\sigma^2 + 33\sigma + 15}{(\sigma + \frac{3}{2})^2}$$

$$\frac{dK}{d\sigma} = -\frac{3\sigma^2 + \frac{3}{2}\sigma^2 + 23\sigma^2 + 33\sigma + 15}{(\sigma + \frac{3}{2})^2}$$

$$\frac{dK}{d\sigma} = -\frac{3\sigma^2 + \frac{3}{2}\sigma^2 + 22\sigma^2 + 33\sigma + 15}{(\sigma + \frac{3}{2})^2}$$

$$\frac{dK}{d\sigma} = -\frac{3\sigma^2 + \frac{3}{2}\sigma^2 + 22\sigma^2 + 33\sigma + 15}{(\sigma + \frac{3}{2})^2}$$

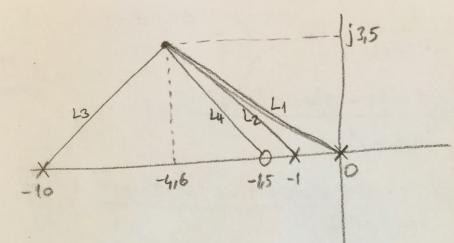
$$\frac{dK}{d\sigma} = -\frac{3\sigma^2 + \frac{3}{2}\sigma^2 + 22\sigma^2 + 33\sigma + 15}{(\sigma + \frac{3}{2})^2}$$

$$\frac{dK}{d\sigma} = -\frac{3\sigma^2 + \frac{3}{2}\sigma^2 + 22\sigma^2 + 33\sigma + 15}{(\sigma + \frac{3}{2})^2}$$

$$\frac{dK}{d\sigma} = -\frac{3\sigma^2 + \frac{3}{2}\sigma^2 + 22\sigma^2 + \frac{3}{2}\sigma^2 + 10\sigma^2 + 15}{(\sigma + \frac{3}{2})^2}$$

$$\frac{dK}{d\sigma} = -\frac{3\sigma^2 + \frac{3}{2}\sigma^2 + 22\sigma^2 + \frac{3}{2}\sigma^2 + 10\sigma^2 + 15}{(\sigma + \frac{3}{2})^2}$$

$$\frac{dK}{d\sigma} = -\frac{3\sigma^2 + \frac{3}{2}\sigma^2 + \frac{3}{2}\sigma$$



$$K = \frac{1}{161} = \frac{L_1 \times L_2 \times L_3}{L_4}$$

$$L_1 = \sqrt{4/6^2 + 3,5^2} = 5,78$$

$$L_2 = \sqrt{3,6^2 + 3,5^2} = 5,02$$

$$L_3 = \sqrt{5,4^2 + 3,5^2} = 6,44$$

$$L_4 = \sqrt{3,1^2 + 3,5^2} = 4,68$$



