| Unit weight of soil | $\gamma:=18 \frac{\mathrm{kN}}{\mathrm{m}^{3}}$ |
| :--- | :--- |
| Friction angle | $\phi:=30 \mathrm{deg}$ |
| Depth | $\sigma:=5 \mathrm{~m}$ |
| Pressure | $\mathrm{K}_{\mathrm{a}}:=\tan \left(45 \mathrm{deg}-\frac{\phi}{2}\right)$ |
| Active earth pressure | $\sigma=90 \mathrm{kPa}$ |

With explicit -function I can get this:
Horizontal soil pressure

$$
\sigma_{\mathrm{h}}:=\sigma \cdot \mathrm{K}_{\mathrm{a}}=18 \cdot \frac{\mathrm{kN}}{\mathrm{~m}^{3}} \cdot \mathrm{z} \cdot \tan \left(45 \cdot \mathrm{deg}-\frac{30 \cdot \mathrm{deg}}{2}\right) \quad \sigma_{\mathrm{h}}=51.962 \mathrm{kPa}
$$

But, what I would like to see is $\quad \sigma_{\mathrm{h}}:=\sigma \cdot \mathrm{K}_{\mathrm{a}}=90 \mathrm{kPa} * 0.577=51.962 \mathrm{kPa} \quad<=$ Is this somehow possible?

