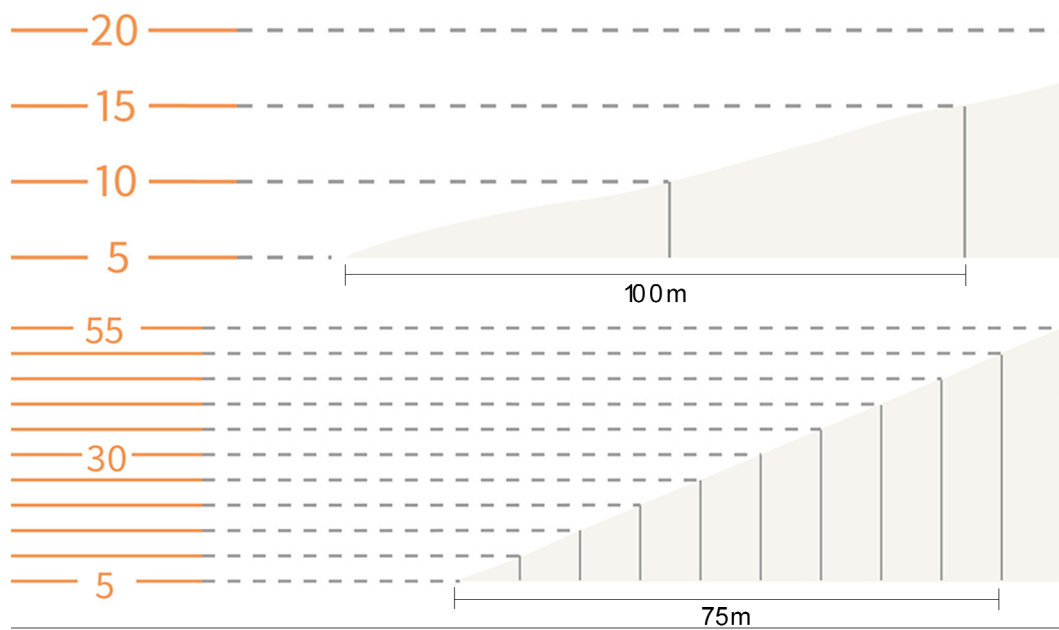




$$\Delta h = 15 - 5 = 10\text{m}$$

$$D = 100\text{m}$$

$$\text{Gradient} = \frac{\Delta h}{D} = \frac{10}{100} = 0.1 = 10\% \text{ slope}$$

in 10 slope

$$\tan^{-1}(0.1) = 5.7^\circ$$

$$\Delta h = 55 - 5 = 50\text{m}$$

$$D = 75\text{m}$$

$$\text{Gradient} = \frac{\Delta h}{D} = \frac{50}{75} = 0.6 = 60\%$$

6 in 10 slope

$$\tan^{-1}(0.6) = 31.0^\circ$$