

Known variables:

$T_A, T_B$ , Tension (kN)

$x$ , horizontal distance (m)

$y_A, y_B$ , vertical distance (m)

$w_0$ , unit mass (kg/m)

$d$ , span distance (m)

Unknown variables:

$T_{XA}, T_{XB}$  Horizontal Tension (kN)

$x_A, x_B$ , horizontal distance from lowest point (m)

$y_0$ , vertical distance from lowest point (m)

$s$ , total cable length (m)

