Find reaction forces at gin pole attachment points.

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Horizontal force at bridle, due to shear at rooster head

$Ph = 0.43$ $\quad Rbr1 := \frac{Ph}{Lb} \cdot (L)$ $\quad Rbr1 = 0.86$ kips

Horizontal force at bridle, due to wind on pole

$w := 0.00042$ $\quad Rbr2 := \frac{w \cdot La \cdot 12}{2 \cdot Lb \cdot 12} \cdot (2 \cdot Lb \cdot 12 + La \cdot 12)$ $\quad Rbr2 = 0.465$ kips

Horizontal force at bridle, due to cable loads at rooster head

$Pv = 18.482$ $\quad D := 32 + \Delta t$ $\quad Rbr3 := \frac{Pv \cdot D}{Lb \cdot 12}$ $\quad Rbr3 = 0.954$ kips

Total horizontal force at bridle $\quad Rbr := Rbr1 + Rbr2 + Rbr3$ $\quad Rbr = 2.28$ kips

Horizontal force at basket, due to shear at rooster head

$Rba1 := \frac{Ph \cdot La}{Lb}$ $\quad Rba1 = 0.43$ kips

Horizontal force at basket, due to wind on pole

$Rba2 := \frac{w \cdot (La \cdot 12)^2}{2 \cdot Lb \cdot 12}$ $\quad Rba2 = 0.155$ kips

Horizontal force at basket, due to cable loads at rooster head

$Pv = 18.482$ $\quad D := 32 + \Delta t$ $\quad Rba3 := \frac{Pv \cdot D}{Lb \cdot 12}$ $\quad Rba3 = 0.954$ kips

Total horizontal force at basket $\quad Rba := Rba1 + Rba2 + Rba3$ $\quad Rba = 1.539$ kips

Vertical load at basket

$Wpa = 23.695$ $\quad Rv := Wpa + Wtp \cdot \frac{Lb}{1000}$ $\quad Rv = 28.307$ kips

Values @ Load Chart $\quad La = 61.5 \quad Wt = 12.319 \quad Rbr = 2.28 \quad Rba = 1.539 \quad Rv = 28.307$