

Sesashin June 20

Prognosis 1

Wymc 110

Wymc: 110 kg 200 37.5 37.5 1

= -100 y

EF: 100 100

EF: 110 8 4

EF: 5 10 1.5

EF: 75

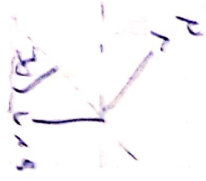
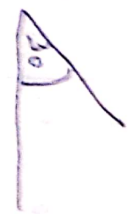
EF: 100 100

EF: 1 5 8

EF: 160

AC: 75 160

PE: -85



200 = 0

100 100

Wymc: 110 8 4

Wymc: 5 10 1.5

Wymc: 75

Sección 14-40

2°

Proyección 2 $P_{1x} = P_{2x}$

$$2m \cdot 84/s = M \cdot 20 \cos 37^\circ + M \cdot \cos 0^\circ$$

$$P_{1y} = P_{2y}$$

$$0 = M \cdot 20 \sin 37^\circ + M v \sin 4^\circ$$

$$N_y = \frac{-10 \sin 37^\circ}{\sin 4^\circ}$$

$$16M = M \left(20 \cos 37^\circ - \frac{20 \sin 37^\circ}{\sin 4^\circ} \cdot \cos 4^\circ \right) \quad \frac{\cos 4^\circ}{\sin 4^\circ} = \tan 4^\circ$$

$$16 = 20 \cos 37^\circ - \frac{20 \sin 37^\circ}{\tan 4^\circ}$$

$$\frac{20 \sin 37^\circ}{\tan 4^\circ} = 20 \cos 37^\circ - 16$$

$$\tan 4^\circ = \frac{20 \sin 37^\circ}{16 - 20 \cos 37^\circ} \approx 441$$

$$\tan^{-1} = 441$$

$$\tan 4^\circ = 89,8^\circ \approx 90^\circ$$

$$N = \frac{-20 \sin 37^\circ}{\sin 90^\circ} = -12,03 \text{ m/s}$$

Segunda parte a $12,03 \text{ m/s}$.

S. N.

Sebastian Je.02

Presenta Problema 2

$$16 = 20 \cos 32^\circ + U \cos 89^\circ$$

$$U_x = 12,29$$

$$U = \sqrt{U_x^2 + U_y^2}$$

$$U = \sqrt{12,29^2 + 12,05^2} = 17,2 \text{ u/s}$$

Solution given

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$$a) \quad \omega_1 = \omega_2 = 10,47 \text{ rad/s}$$

$$\omega = 26,18 \text{ rad/s}$$

$$\omega = \frac{\omega}{r} = \frac{26,18 \cdot 30}{110} = 7,18 \text{ rad/s}$$

$$b) \quad \omega = \frac{\Delta \omega}{110} = \omega = \frac{7,18 \cdot 30}{110} = \omega = 26,18$$

$$\omega = 26,18 \text{ rad/s}$$

$$c) \quad \omega_1 = \omega_2 = \omega_0 = 10,47$$

$$\omega_1 = \frac{26,18 \cdot 30}{110}$$

$$\omega = 10,47$$