

Estática

Prof. Rafael Guido

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Diagrama Espacial, Corpo Livre e Triângulo de forças

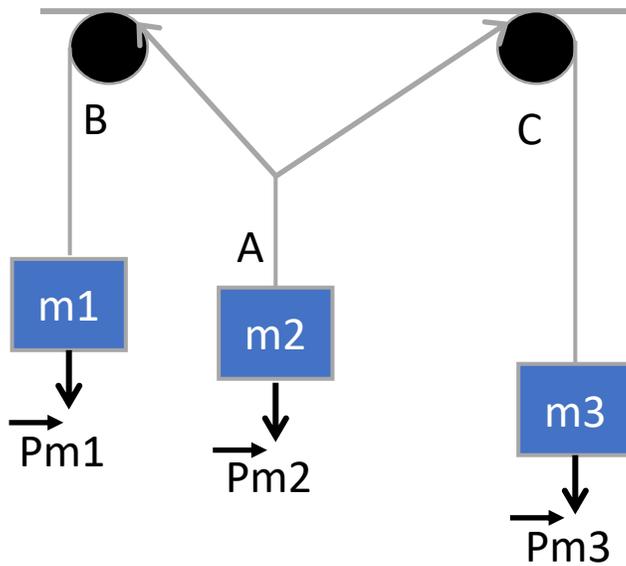


Diagrama Espacial, Corpo Livre e Triângulo de forças

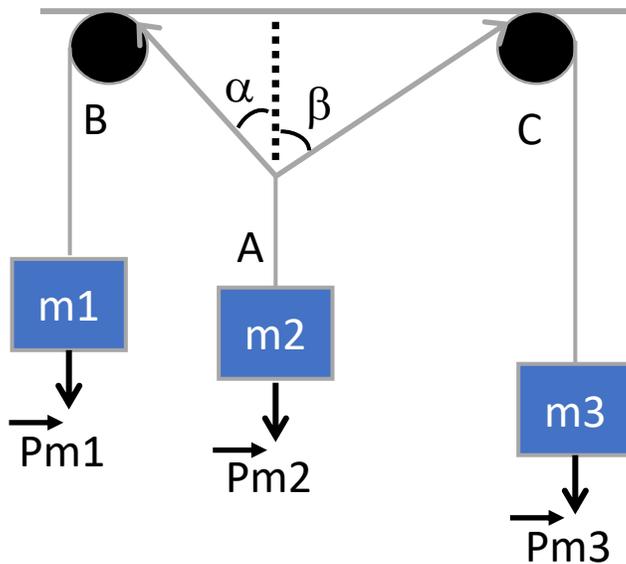


Diagrama Espacial

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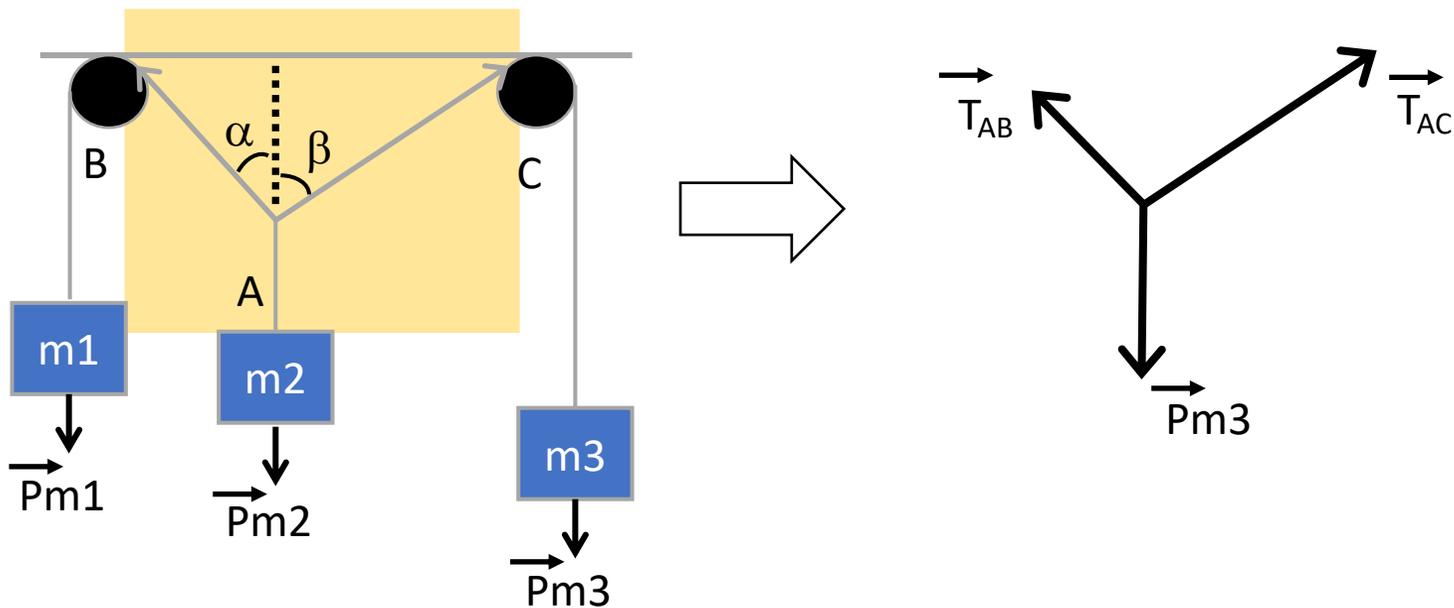


Diagrama Espacial

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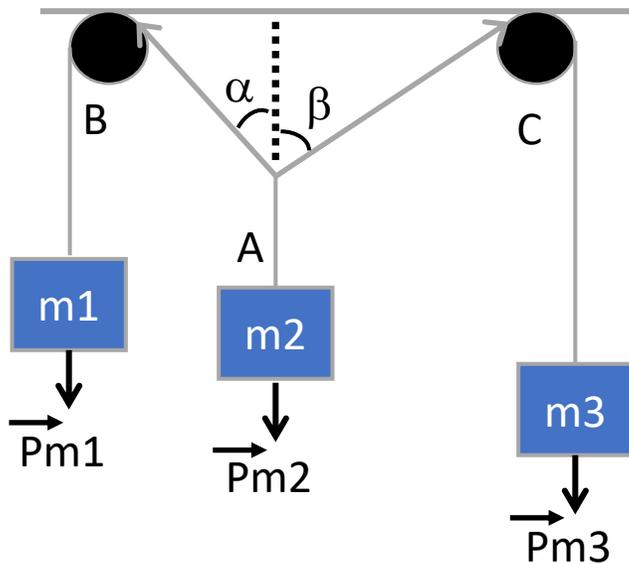


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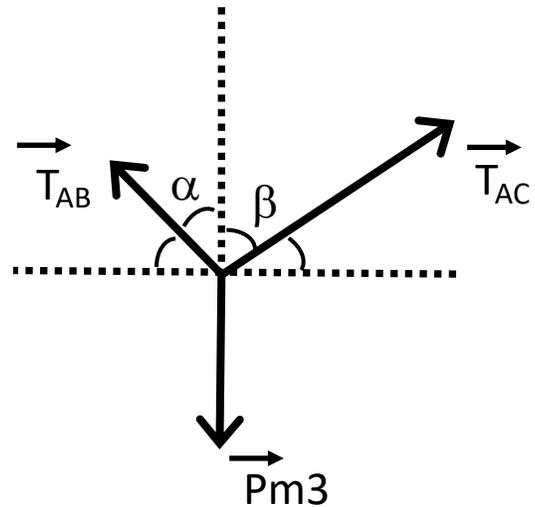
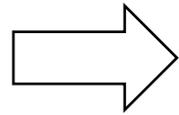


Diagrama de Corpo Livre

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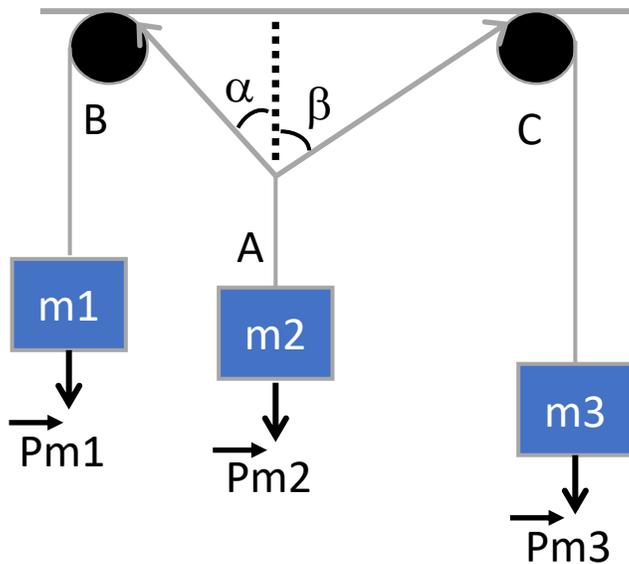


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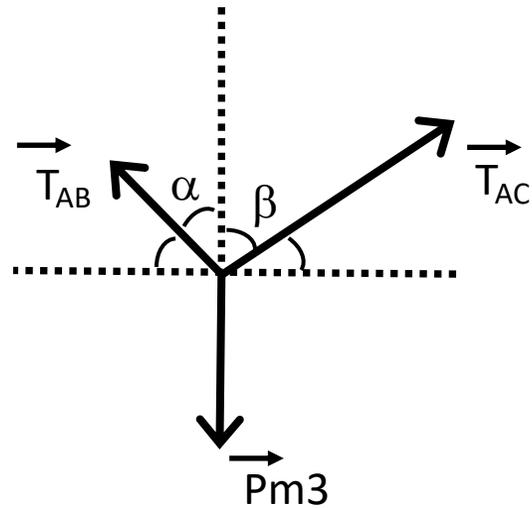
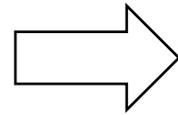


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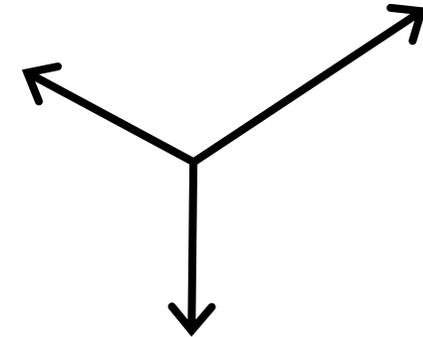
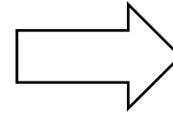


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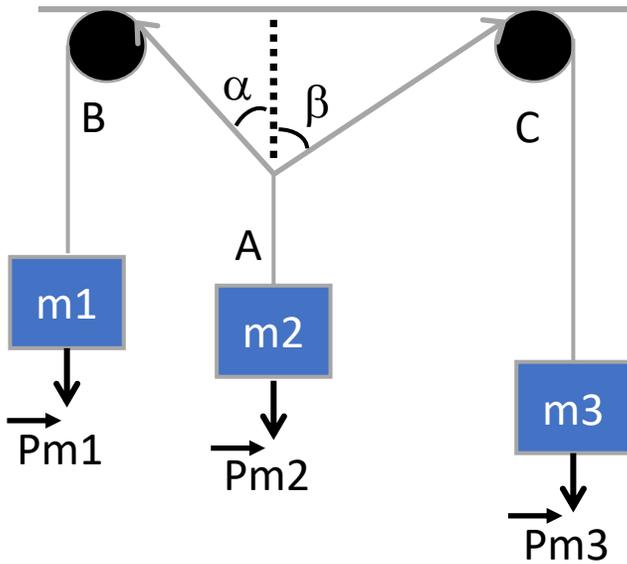


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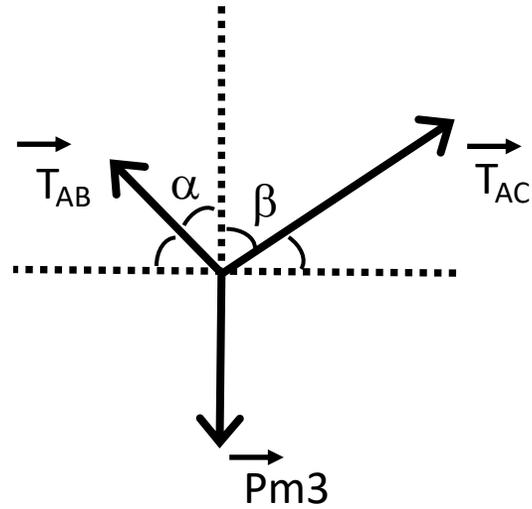
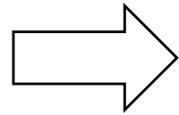


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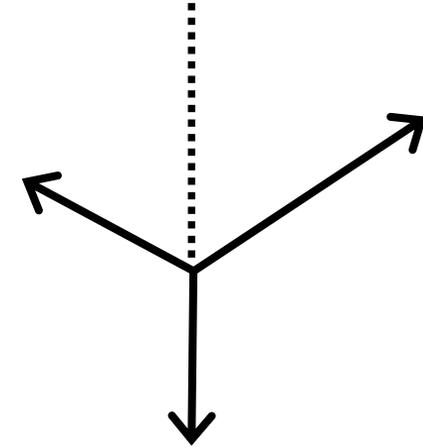
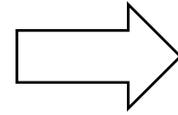


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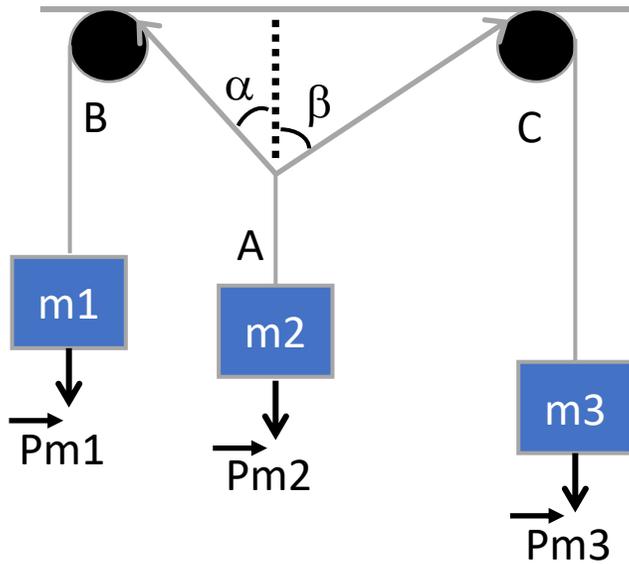


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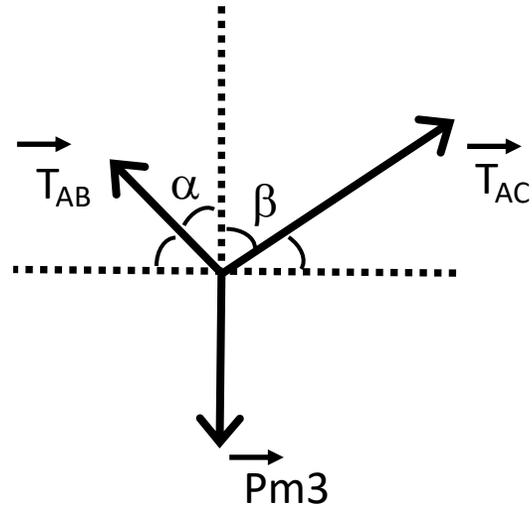
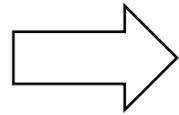


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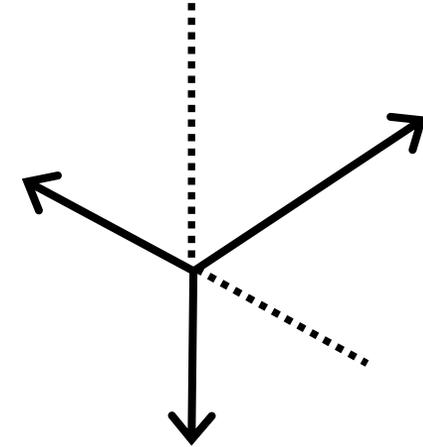
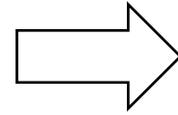


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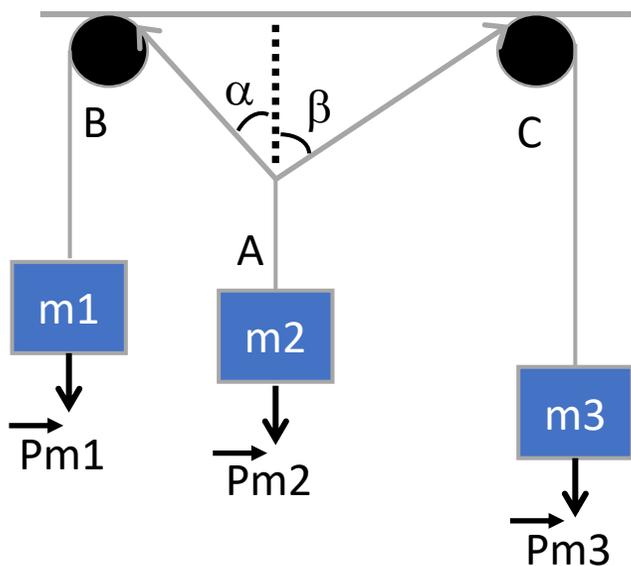


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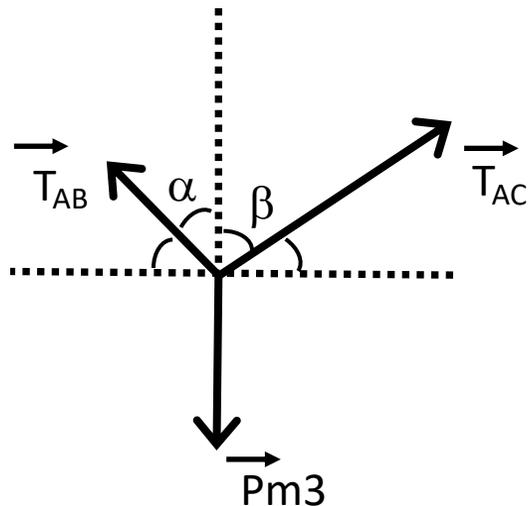
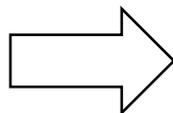
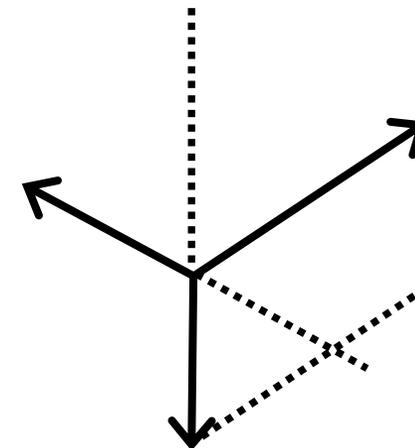
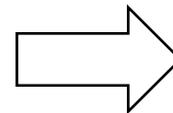


Diagrama de Corpo Livre



Triângulo de forças

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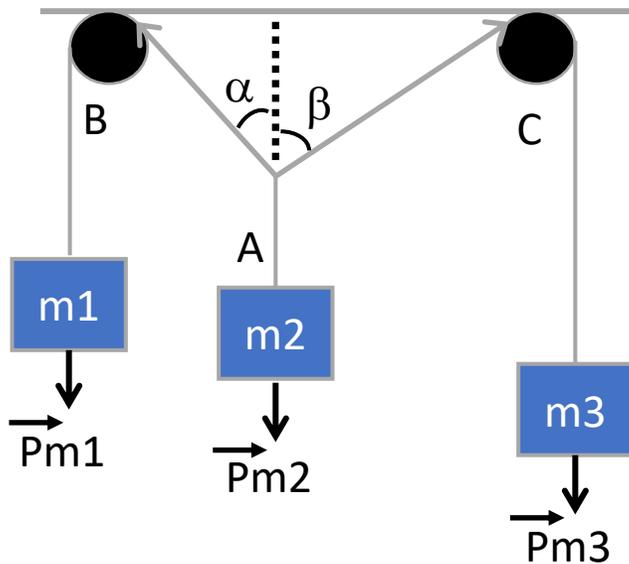


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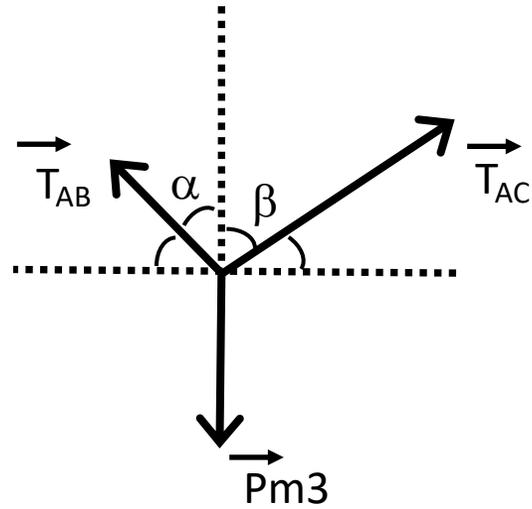
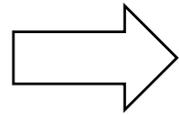
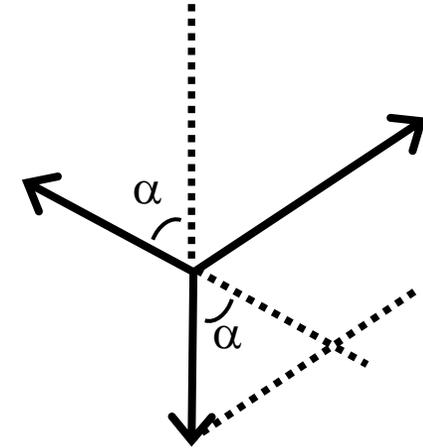
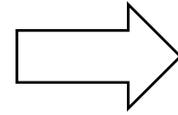


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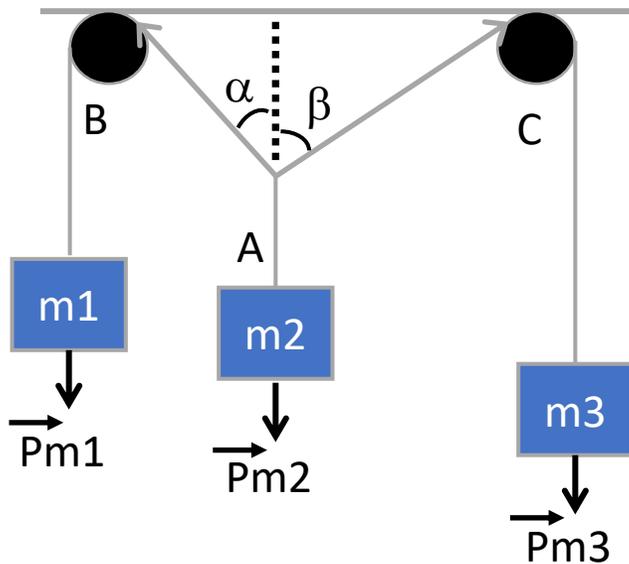


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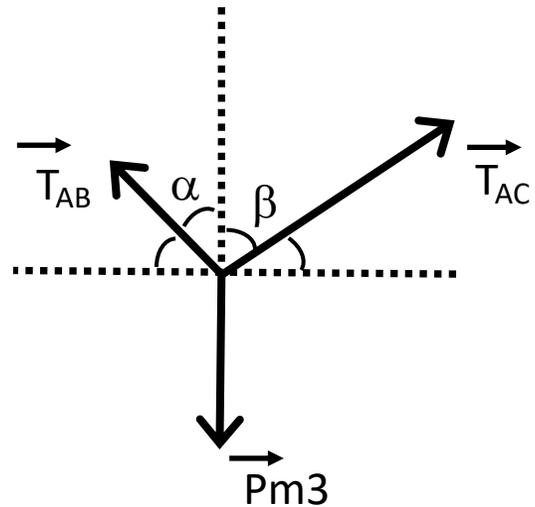
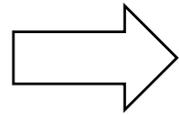
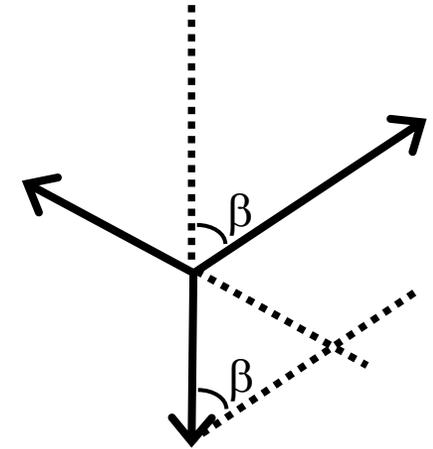
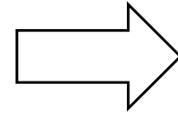


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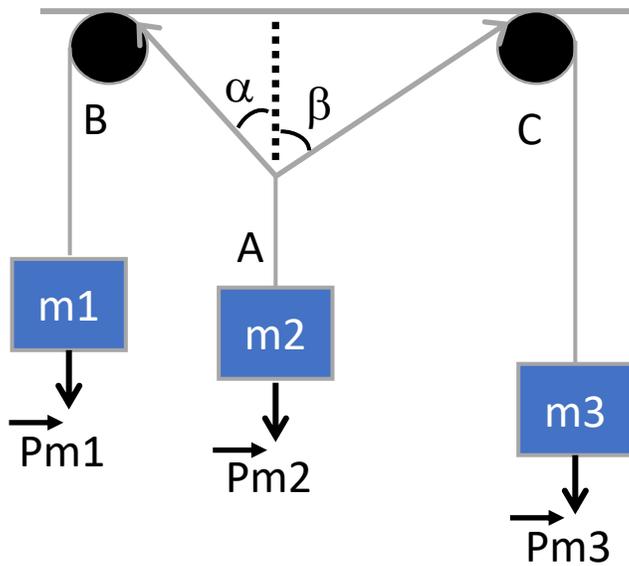


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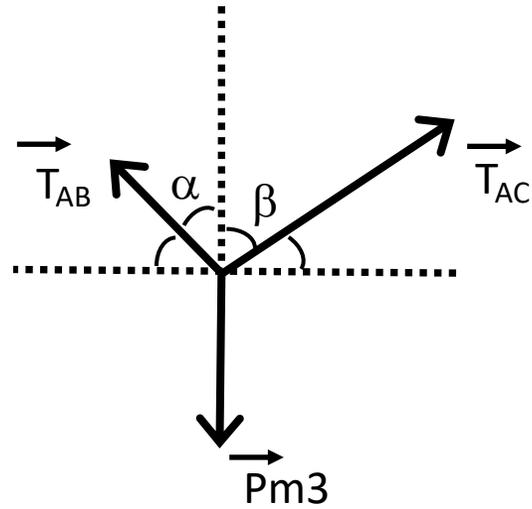
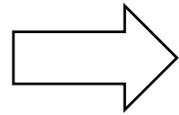
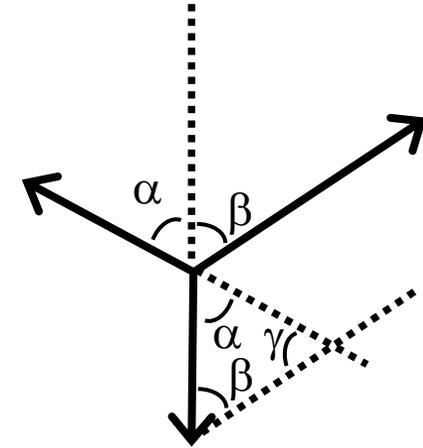
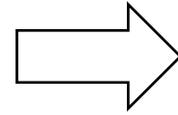


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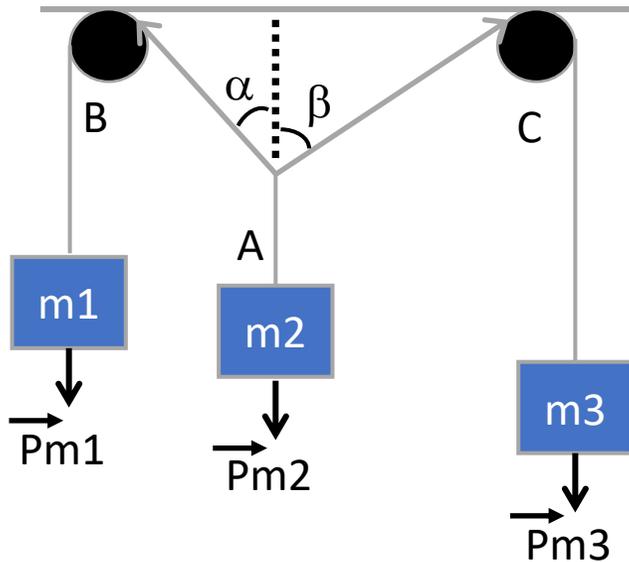


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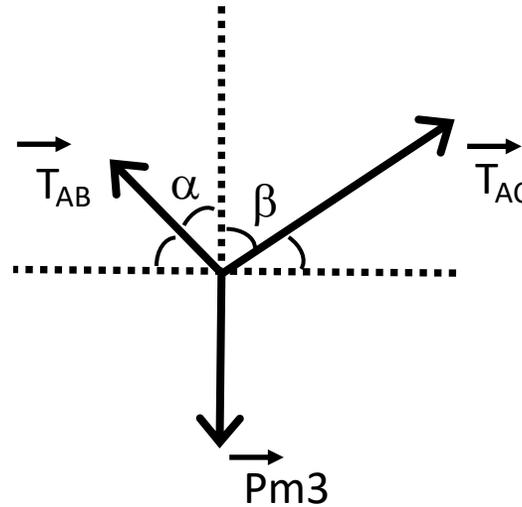
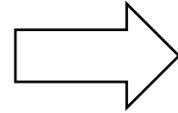
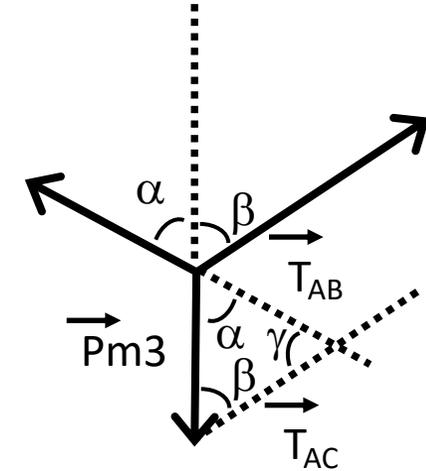
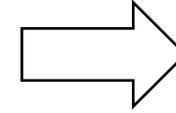


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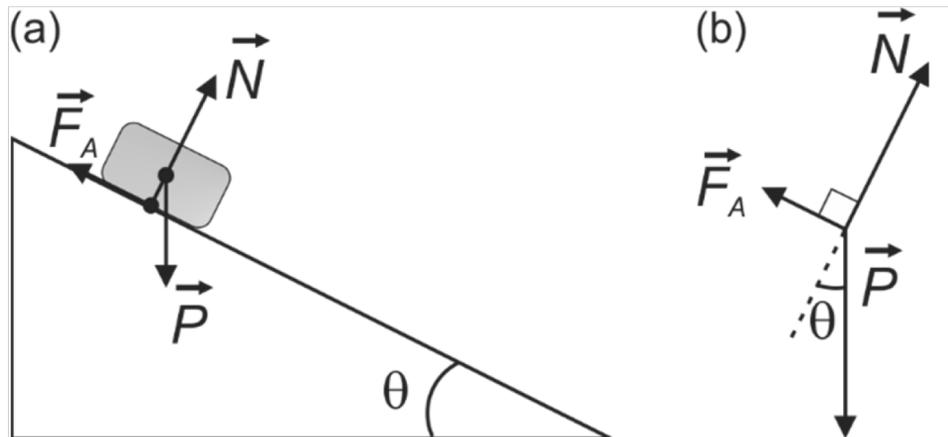


Triângulo de forças

Lei dos senos

$$\frac{\vec{T}_{AC}}{\text{sen } \alpha} = \frac{\vec{T}_{AB}}{\text{sen } \beta} = \frac{\vec{P}_{m3}}{\text{sen } \gamma}$$

Coeficiente de atrito



No equilíbrio:

$$\vec{F}_{\text{at}} = \mu \times \vec{N}$$

$$F_{\text{at}} = \mu \times P \times \cos \theta$$

$$P \times \sin \theta = \mu \times P \times \cos \theta$$

$$\mu = \frac{\sin \theta}{\cos \theta} = \text{tg } \theta$$