

Formulas que vamos a utilizar

Palancas		
<p>Diagram of a lever with a fulcrum (fulcro) in the center. A downward arrow labeled 'potencia' is at distance <math>b_p</math> to the left. An upward arrow labeled 'resistencia' is at distance <math>b_r</math> to the right.</p>	$P \times b_p = R \times b_r$	<p><math>P</math> --&gt; Potencia aplicada  <math>b_p</math> --&gt; brazo potencia (distancia hasta fulcro)  <math>R</math> --&gt; Resistencia a vencer.  <math>b_r</math> --&gt; brazo resistencia (distancia hasta fulcro)</p>

Engranajes		
<p>Diagram showing two meshing gears. Gear 1 is blue and gear 2 is green.</p>	$W1 \times Z1 = W2 \times Z2$	<p><math>W1</math> --&gt; velocidad rueda 1 (rpm).  <math>Z1</math> --&gt; Número dientes rueda 1.  <math>W2</math> --&gt; velocidad rueda 2 (rpm).  <math>Z2</math> --&gt; Número dientes rueda 2</p>

Ruedas fricción / Poleas y correa		
<p>Two diagrams illustrating belt and friction wheel systems. The top diagram shows a belt connecting two wheels of different diameters. The bottom diagram shows two wheels of different diameters in contact.</p>	$W1 \times d1 = W2 \times d2$	<p><math>W1</math> --&gt; velocidad rueda 1 (rpm).  <math>d1</math> --&gt; Diámetro rueda 1.  <math>W2</math> --&gt; velocidad rueda 2 (rpm).  <math>Z2</math> --&gt; Diámetro rueda 2.</p>

<p><b>Poleas</b></p> <p><math>F = R</math></p>	<p><b>Polipastos:</b> sistema compuesto de poleas fijas y móviles.</p> <p><math>n = n^\circ</math> de poleas móviles  <math>F =</math> Fuerza  <math>R =</math> Resistencia</p> $F = \frac{R}{2 \cdot n}$	
<p>Diagram of a single fixed pulley. A hand applies force <math>F</math> to the rope, and a load is attached to the other end. The load is labeled 'load'.</p>	<p>Diagram of a pulley system with one fixed pulley and one mobile pulley. A load <math>R</math> is attached to the mobile pulley, and a hand applies force <math>F</math> to the rope.</p>	<p>Diagram of a pulley system with two fixed pulleys and two mobile pulleys. A load <math>R</math> is attached to the mobile pulleys, and a hand applies force <math>F</math> to the rope.</p>