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Chapter 2: Force Vectors Engineering Mechanics: Statics Objectives To show how to add forces and resolve them into components using the Parallelogram Law. To express force and position in Cartesian vector form and explain how to determine the vector's magnitude and direction. To introduce the dot product in order to determine the angle between two vectors or the projection of one vector onto another.

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Engineering Mechanics - Statics Chapter 2 $F_v \sin(\theta) = F \sin(\theta) = F_v \sin(\theta) = F_v = 332 \text{ N}$
Problem 2-11 The force F acts on the gear tooth. Resolve this force into two components acting along the lines aa and bb . Given: $F = 20 \text{ lb}$ $\theta_1 = 80 \text{ deg}$ $\theta_2 = 60 \text{ deg}$ Solution: $F \sin 180 \text{ deg} = F \sin(\theta) = F_a \sin(\theta) = F_a \sin 180 \text{ deg} = F_a \sin(\theta) = F_a$

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Engineering Mechanics - Statics Chapter 10 $I_x = 17 \text{ in}^4 = I_y = 56 \text{ in}^4 = a = 3 \text{ in}$ Solution: $I_C = I_x + I_y = I_C + I_x + I_y = A a^2 = + A I_y + I_y a^2 = A 5.00 \text{ in}^2 =$ Problem 10-26 The polar moment of inertia for the area is J_{CC} about the z' axis passing through the centroid C . If the moment of inertia about the y' axis is $I_{y'}$ and the moment of ...

~~Engineering Mechanics - Statics Chapter 10~~

MEM202 ENGINEERING MECHANICS - STATICS CHAPTER 2 FORCE VECTORS 7 Vector Operation - Resolution of Vector Resolve vector R into two components having known lines of action (Parallelogram law in reverse) Extend parallel lines from the head of R to form components Two methods commonly used in vector operations: 1.

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The beam is to be hoisted using two chains. If the resultant force is to be 600 N directed along the positive y axis, determine the magnitudes of forces F_A and F_B acting on each chain and the angle u of F_B so that the magnitude of F_B is a minimum. F_A acts at 30° from the y axis, as shown

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