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7 MEM202 Engineering Mechanics - Statics MEM 3.3 Equilibrium of A Particle 2-D Example ( ) 0.866 0.5 33.16 2.59 0 sin60 sin30 sin236 sin165 sin sin sin sin

Chapter 3 Statics of Particles
CHAPTER 1 ENGINEERING MECHANICS I 1.1Verification of Lame's Theorem: If three concurrent forces are in equilibrium, Lame's theorem states that their magnitudes are proportional to the sine of the angle between the other forces.

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Chapter 3 Equilibrium of concurrent forces
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ME 101: Engineering Mechanics
The block has a weight of 20 lb and is being hoisted at uniform velocity. Determine the angle u for equilibrium and the force in cord AB. B. F. 20 A. C. u D. SOLUTION. Equations of Equilibrium. Assume that for equilibrium, the tension along the length of cord CAD is constant. Thus, F=20 lb. Referring to the FBD shown in Fig. a,

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