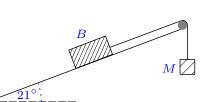
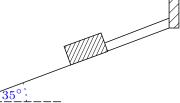
Basic Slope Problems

- i. A weight of 6kg is at rest on a smooth slope of 35°. The weight is held in place by a light string which is attached to a wall at the top of the slope. Find the tension in the string.
- ii. A particle P of 300g is at rest on a smooth slope of θ° to the horizontal. The particle is held in place by a force Fof 2N, acting at 32° to the slope, as shown in the diagram. Find the value of θ .
- iii. A brick B is held at rest on a smooth slope of 21° by a mass M of 2kg attacked to the brick by a light string running over a smooth pully, as shown in the diagram. Find the mass of the brick *B*.



 θ





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