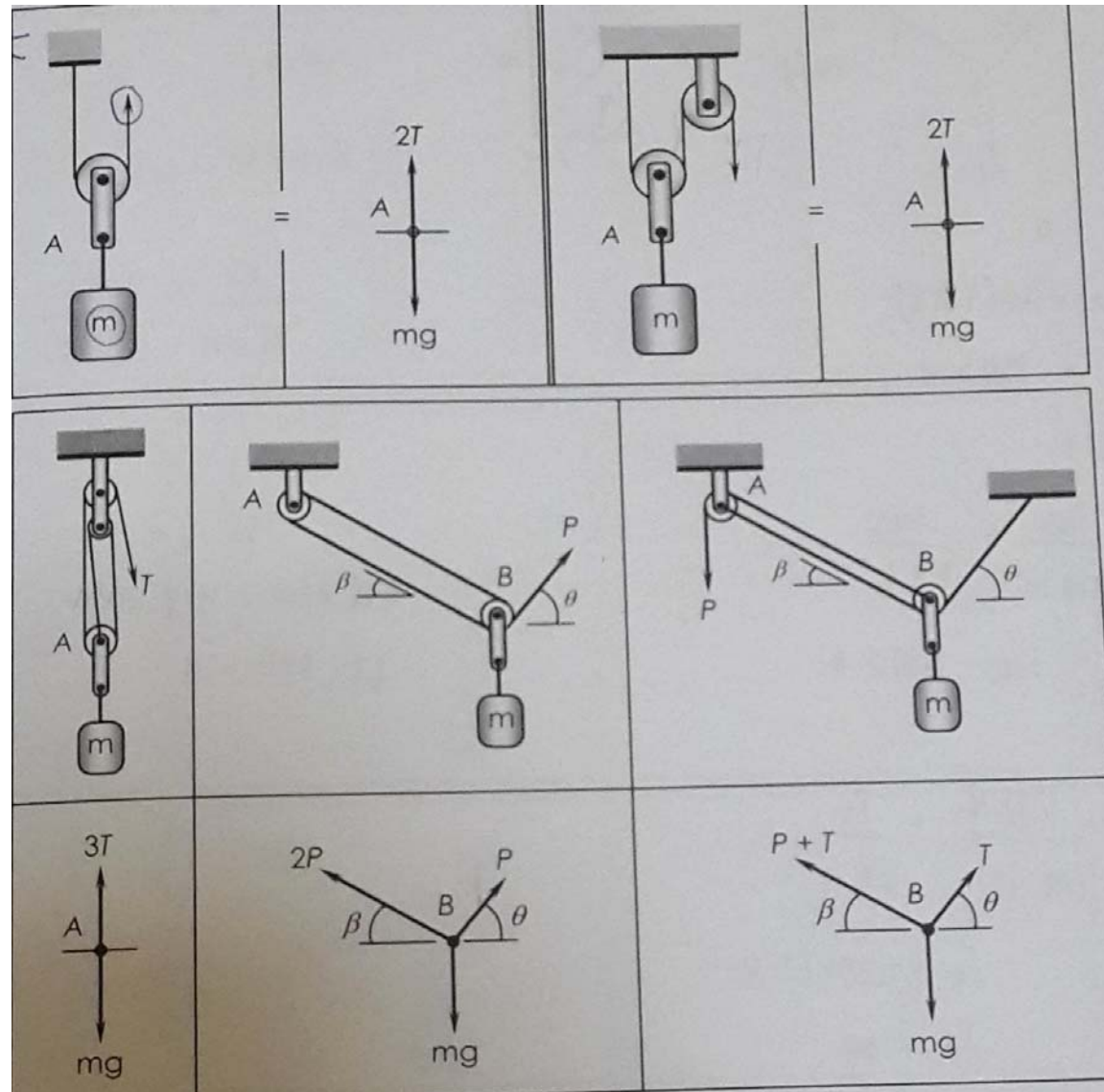
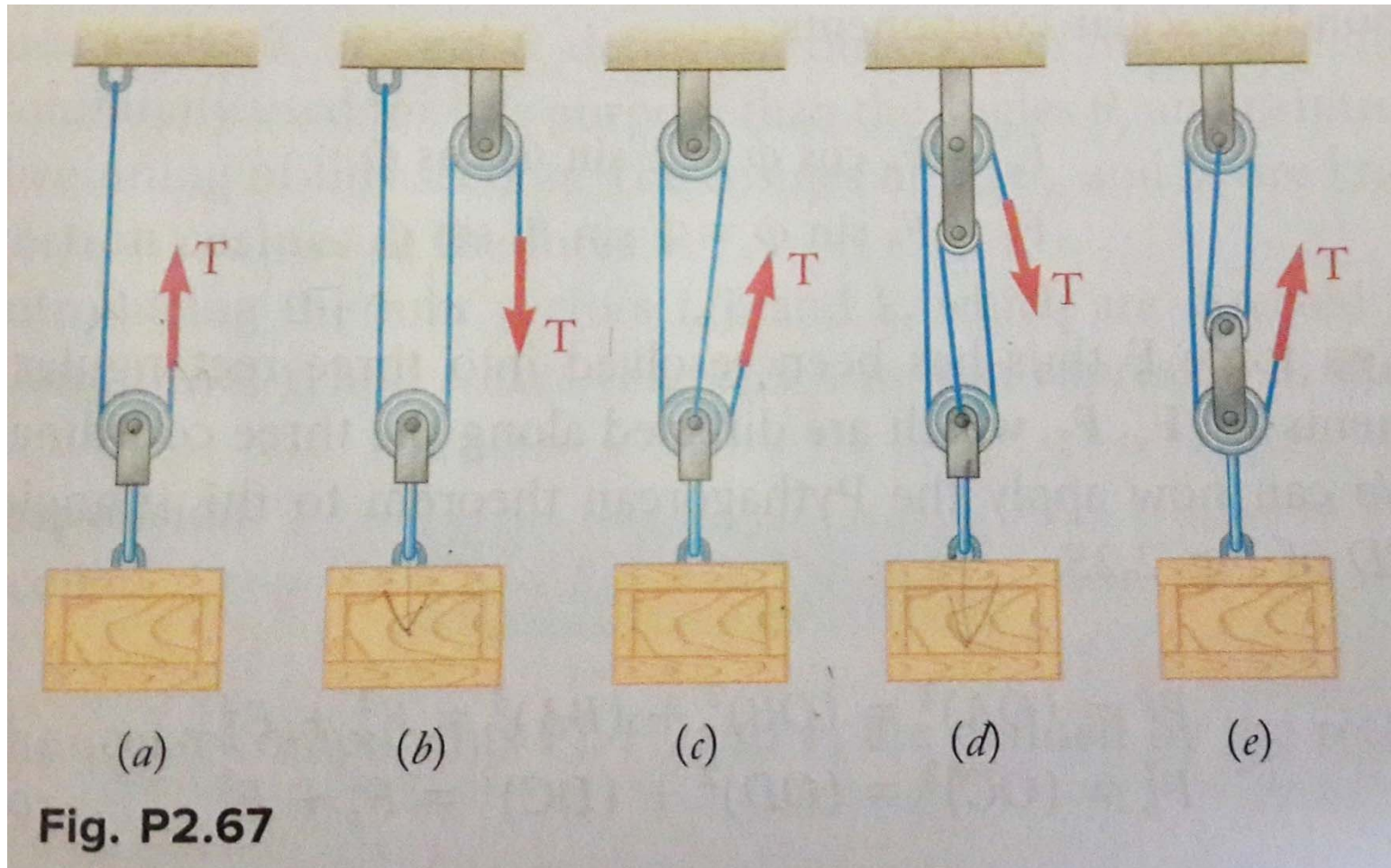


Example Problems: Pulley



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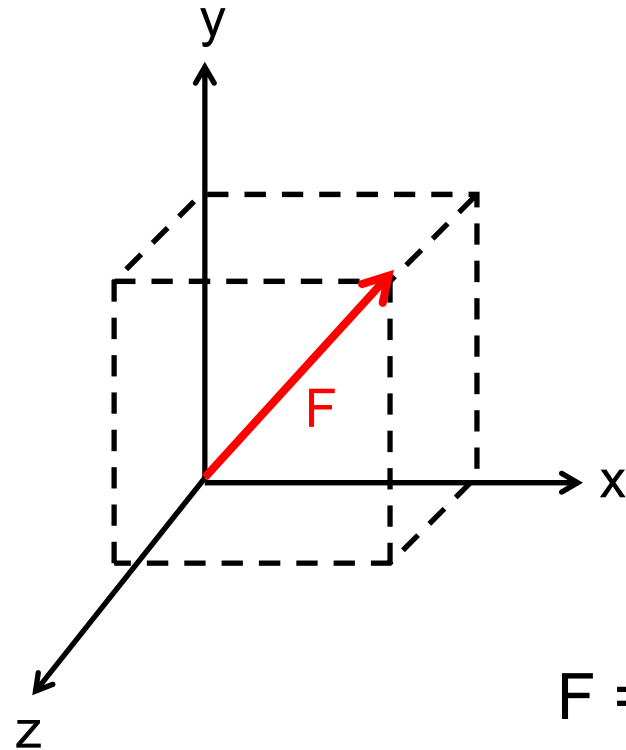


Problem Solving:

1st Angle Method

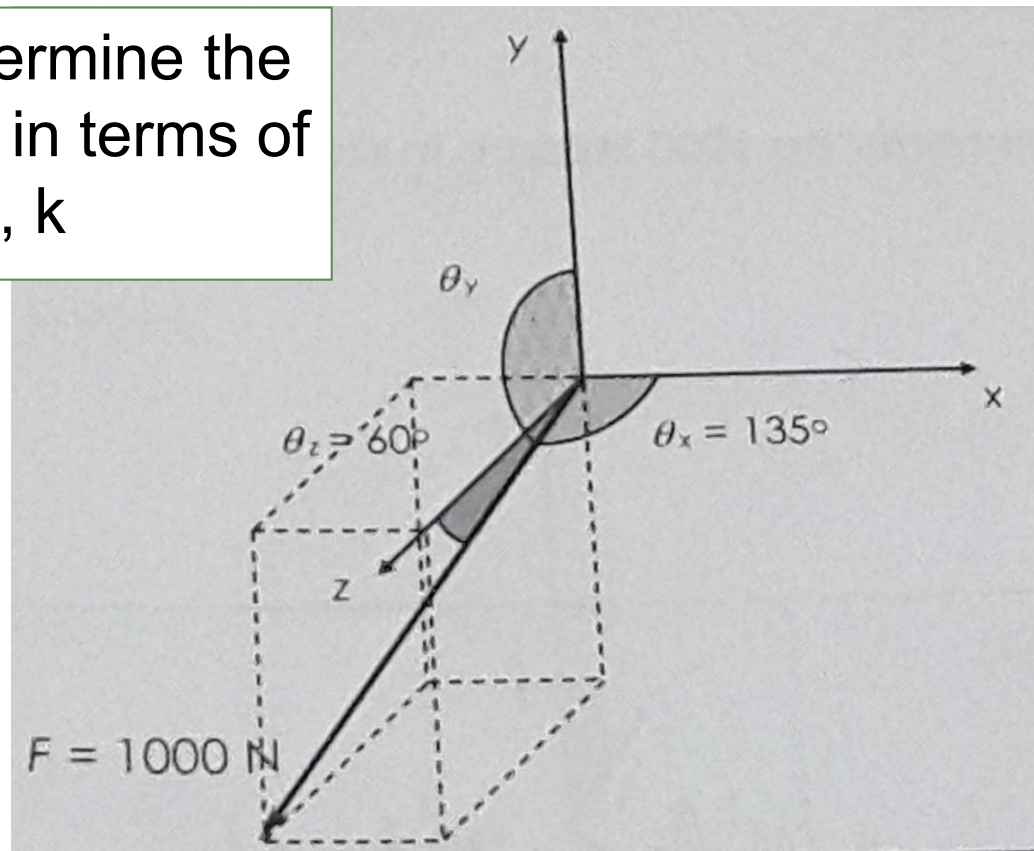
Coordinate method

2nd Angle Method



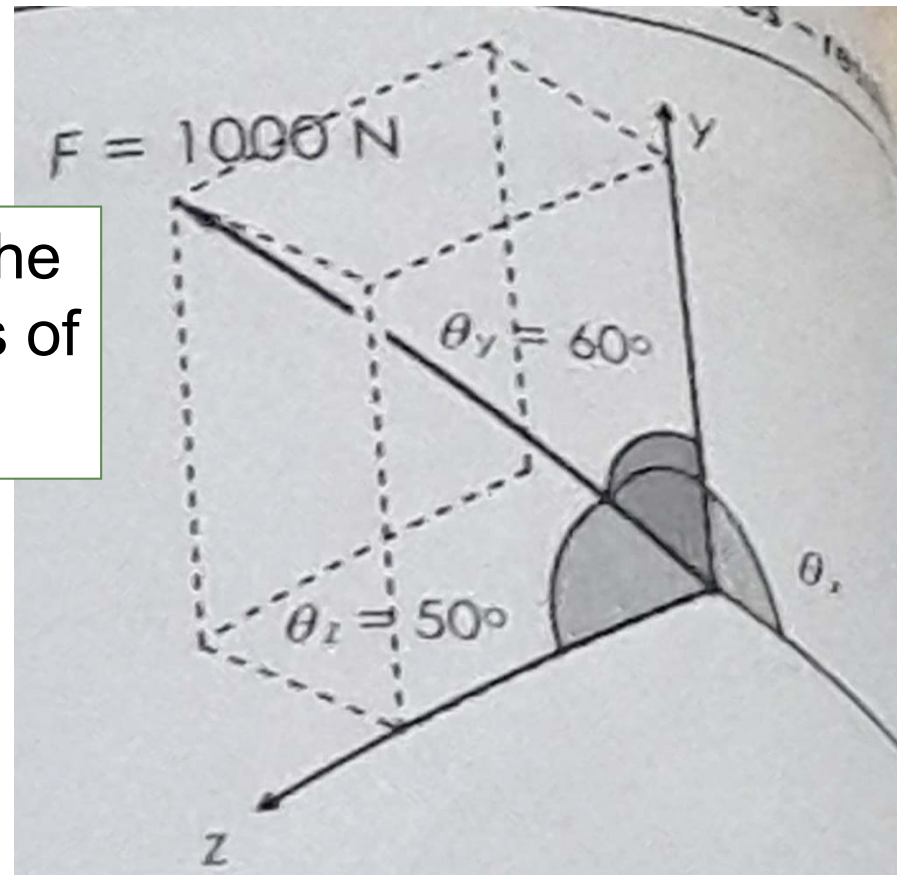
$$F = xN \mathbf{i} + yN \mathbf{j} + zN \mathbf{k}$$

Ex. 1: Determine the resultant F in terms of i, j, k

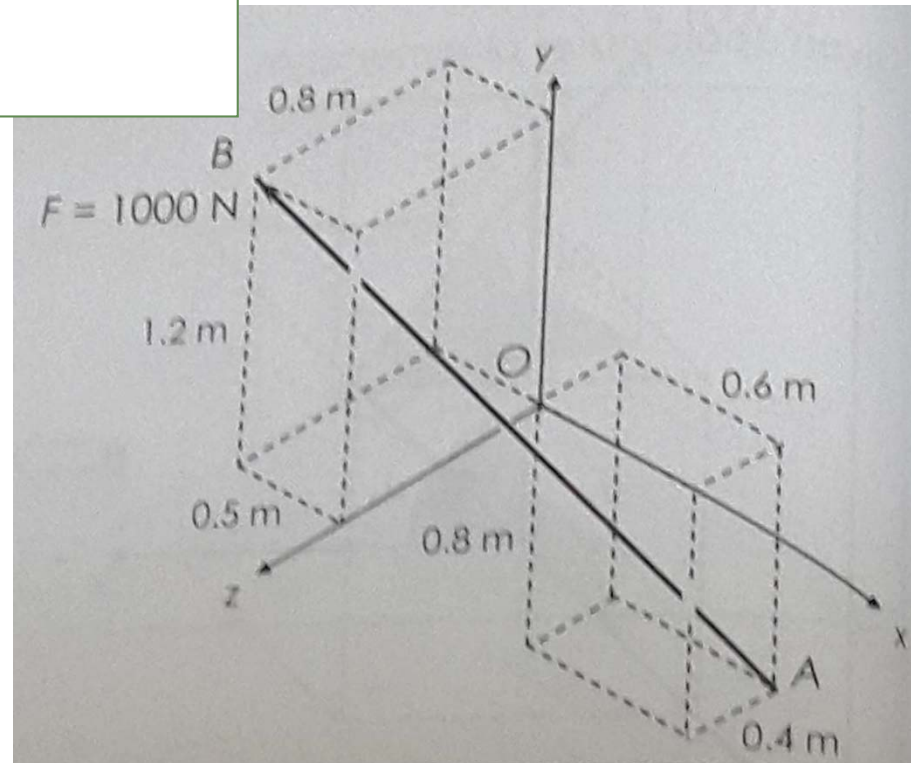


$$F = F_x \mathbf{i} + F_y \mathbf{j} + F_z \mathbf{k}$$

Ex. 2: Determine the resultant F in terms of i, j, k

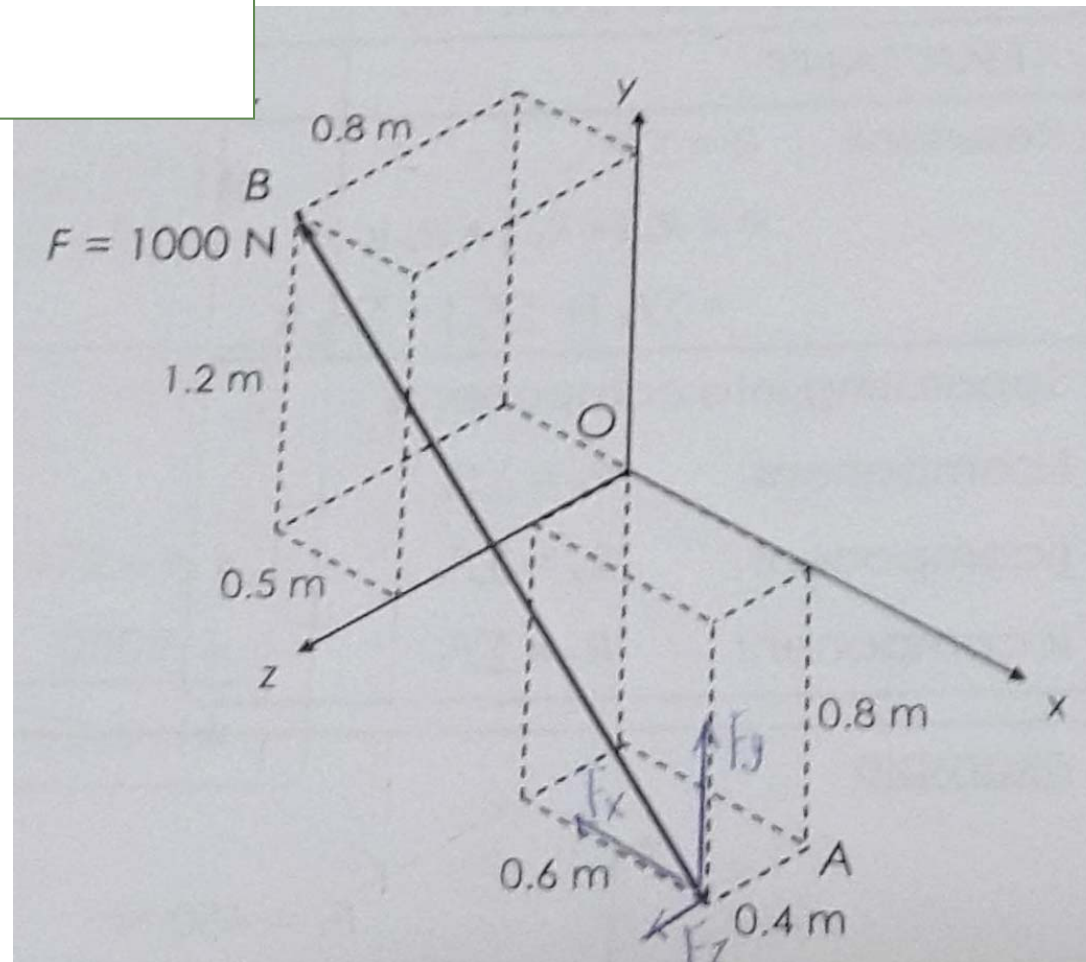


Ex. 3: Determine the resultant F in terms of i, j, k

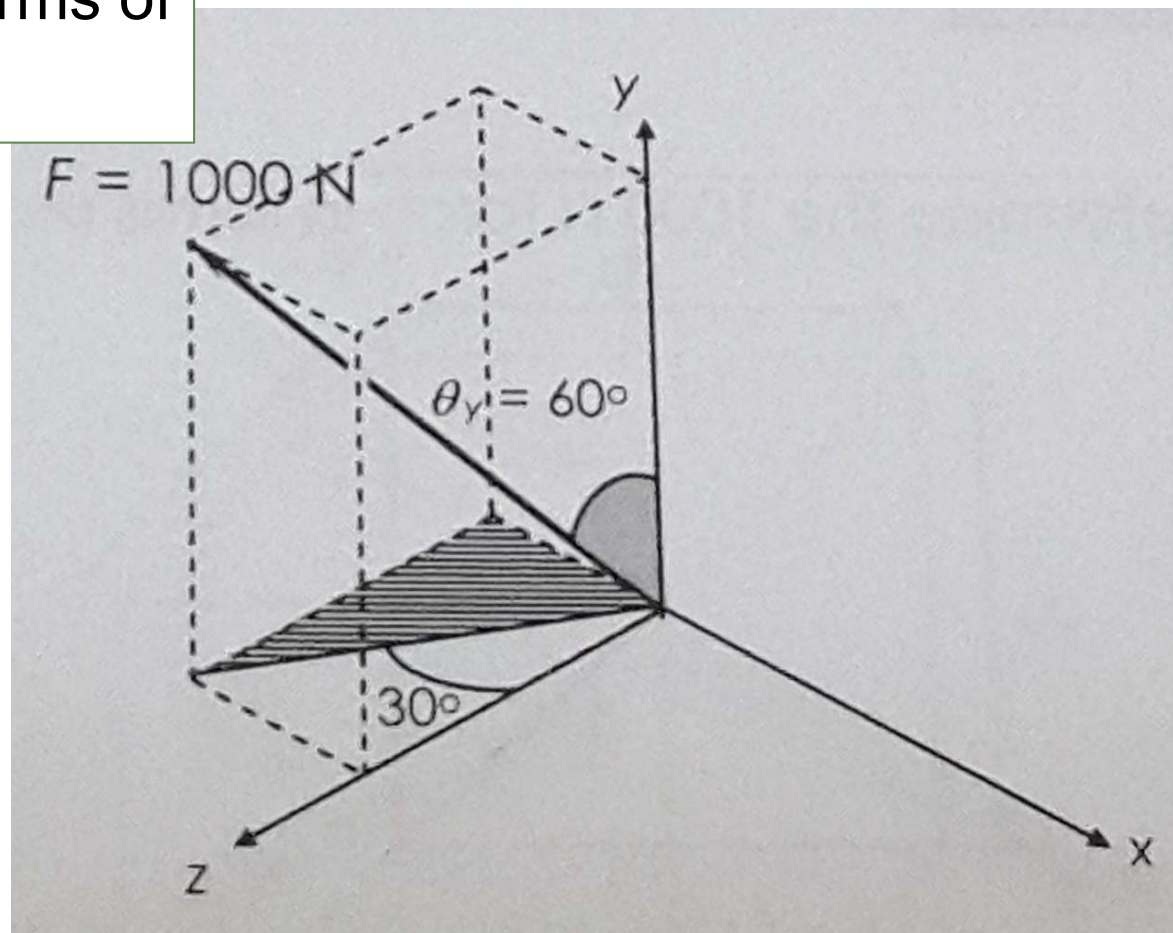


$$F = F_x \mathbf{i} + F_y \mathbf{j} + F_z \mathbf{k}$$

Ex. 4: Determine the resultant F in terms of i, j, k

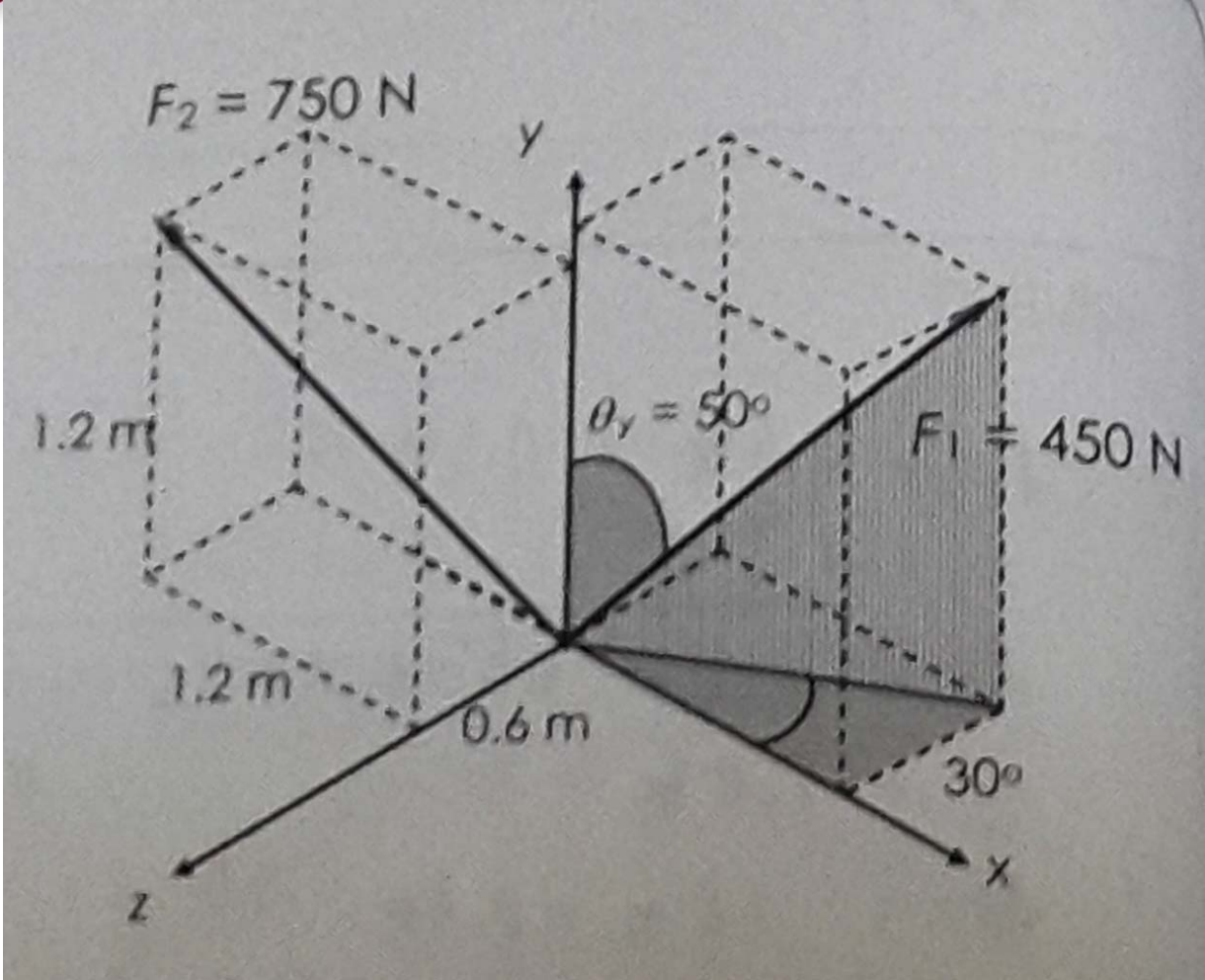


Ex. 6: Determine the resultant F in terms of i, j, k



If more than 1 force?

Ex. 7:



Remember!

$$\begin{aligned}
 R &= \sum F \\
 &= F_1 + F_2
 \end{aligned}$$

Ex. 8: If more than 1 force?

