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PHYSICS X NOTES VECTORS - SOLVED NUMERICAL

EXAMPLE NO. 5.2:
A certain body is acted upon by forces of 20N, 30N, and 40N moving angles of 30° , 60° , and 90° respectively with the x-axis. Find the magnitude and direction of the resultant force.

SOLUTION:
Scale:
Suppose

10N = 1cm
20N = 2cm
30N = 3cm
40N = 4cm

The directed line segment AD represents the magnitude and direction, the three forces represented by lines I, II, and III.

The three given forces are represented in magnitude and direction by directed line segments I, II and III (figure). The resultant of these forces as determined by head to tail rule is represented in magnitude and direction by directed line segment AD. On measurement the length of AD comes out to be 8.2cm and the angle which it makes the x-axis is 67° . Thus the magnitude of the resultant force is $8.2 \times 10N = 82N$ and it acts in a direction making an angle of 67° with x-axis.

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