

Solutionbank M1

Heinemann Modular Maths for Edexcel AS and A-level

4 Forces

Exercise D, Question 2

Question:

Express the forces in question 1 in the form $ai + bj$, if \mathbf{i} is directed along the x -axis and \mathbf{j} is directed along the y -axis.

Solution:

(a) $F = 4.50\mathbf{i} + 5.36\mathbf{j}$

(b) $F = -7.25\mathbf{i} + 3.38\mathbf{j}$

(c) $F = -5.79\mathbf{i} - 6.89\mathbf{j}$

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