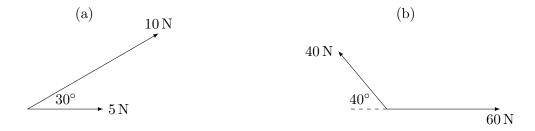
Resultants III

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Use $g = 10 \,\mathrm{N\,kg^{-1}}$ where necessary.

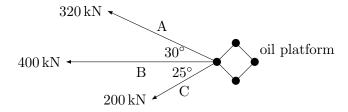
1. Find the resultants of the following pairs of forces



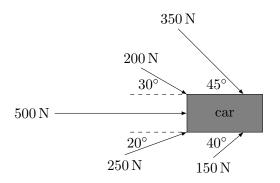
- 2. A body of mass 3.0 kg is placed on a smooth plane inclined at 20° to the horizontal. A force of
 - (a) $5.0 \, \text{N}$
 - (b) 20 N

is applied to the body up the slope, and parallel to the plane. In each case, calculate the net force on the body.

3. Three tugs, A, B and C pull a floating oil platform, as shown in the diagram. Calculate the resultant force.



4. A car is stuck in sand. Five helpers push with the forces indicated, in newtons. Calculate the resultant force on the car, and its direction.









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