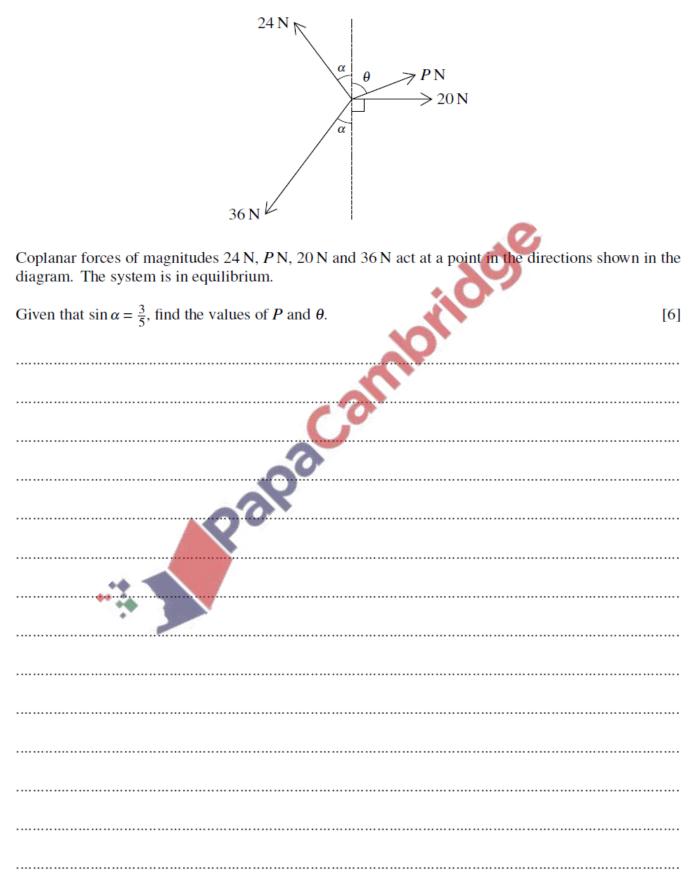
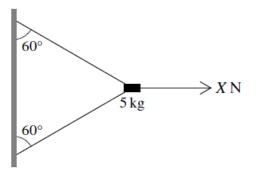
Forces and Equilibrium – 2021 Nov AS

1. Nov/2021/Paper_9709/41/No.3



2. Nov/2021/Paper_9709/42/No.6



A block of mass 5 kg is held in equilibrium near a vertical wall by two light strings and a horizontal force of magnitude X N, as shown in the diagram. The two strings are both inclined at 60° to the vertical.

(a)	Given that $X = 100$, find the tension in the lower string. [4]
	N°
	No.
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3. Nov/2021/Paper_9709/43/No.2

A particle of mass 8 kg is suspended in equilibrium by two light inextensible strings which make angles of 60° and 45° above the horizontal.

(a) Draw a diagram showing the forces acting on the particle. [1]

(b)	Find the tensions in the strings.	[6]
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	60	
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