Question	Answer	Marks	Guidance
(a)	$F - 30 = 70 \times 0.3$	**M1**	Use of Newton's Second law
	$P = 4F$	**B1**	Using $P = Fv$
	$[= 51 \times 4] = 204$ W	**A1**	
		3	
(b)	Change in KE $= \dfrac{1}{2} \times 70 \times 12^2 - \dfrac{1}{2} \times 70 \times 6^2$	**M1**	
	3780 J	**A1**	
		2	
(c)	For work energy equation	**M1**	
	$70g \times d \sin 5 - 30d = 3780$	**A1 FT**	FT change in kinetic energy from **(b)**
	$d = 122$	**A1**	
		3	