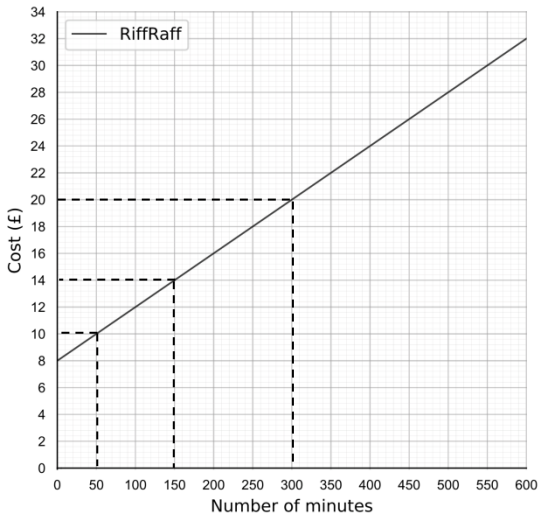
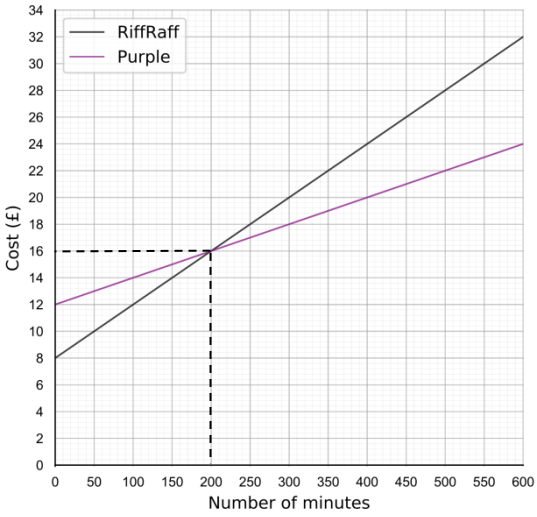
	Real Life Graphs Mark Scheme	
1(a)		**[2]** Identifying and reading of correct data from graph
	£10 + £14 + £20 = £44	**[1]** Correct total cost
1(b)	$C = \frac{1}{25}M + 8$	**[1]** accept $y = \frac{1}{25}x + 8$
1(c)	Monthly charge with no 0 mins – i.e. basic contract cost	**[1]**
1(d)		**[1]** Correctly plotting new line
	Cost = £16	**[1]**
	Minutes = 200	**[1]**
2(a)	$\frac{441}{7} = 63\ ,\quad 63\ \times 5 = £315$	**[1]** (divide by 1.4)
	$\frac{318}{6} = 53\ ,\quad 53\ \times 5 = £265$	**[1]** (divide by 1.2)
	$£315 + £265 = £\ 580$	**[1]** Final answer

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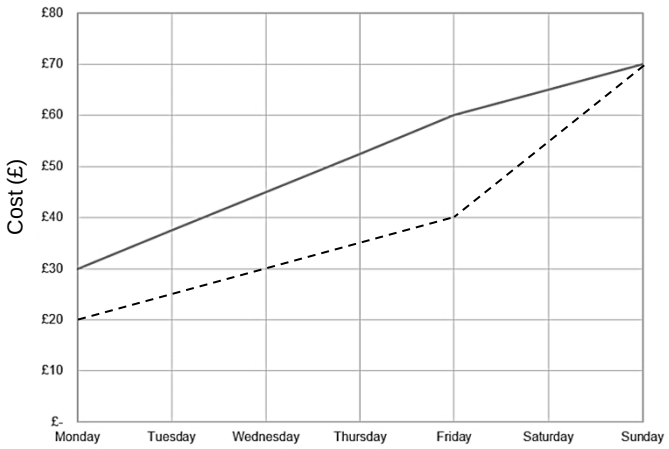
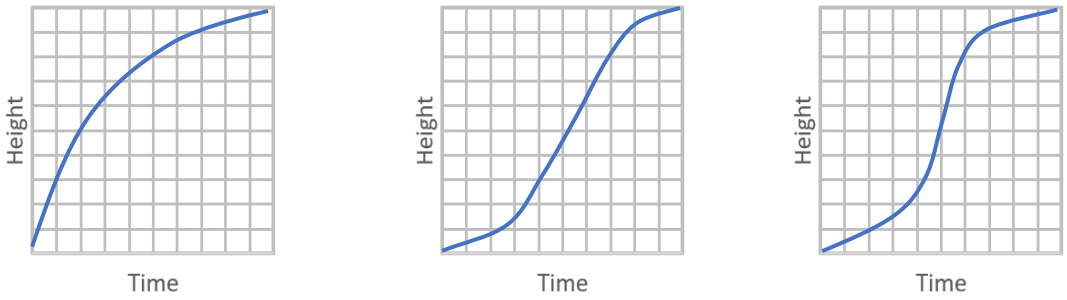
2(b)	$\frac{252}{7} = 36\ ,\quad 36 \times 5 = £180$	**[1]** Conversion to pounds
	$\frac{£180}{5} = 36\ ,\quad 36 \times 6 = €216$	**[1]** Final answer
3		**[1]** Correct starting point **[1]** Correct finish point **[1]** Correct graph
	Both company's provide the same value for money for a week long bicycle hire.	**[1]**
4(a)	Gradient decreases until it becomes zero then becomes negative. Starts and end at the same height	**[1]** Description
	An example could be throwing a ball	**[1]** Any sensible suggestion
4(b)	Height changes periodically between the same maximum and minimum.	**[1]** Description
	An example could be a buoy in sea bobbing up and down or an AC electrical current, a type of wave.	**[1]** Any sensible suggestion
5		
		[3] Mark for each correct curve

END

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