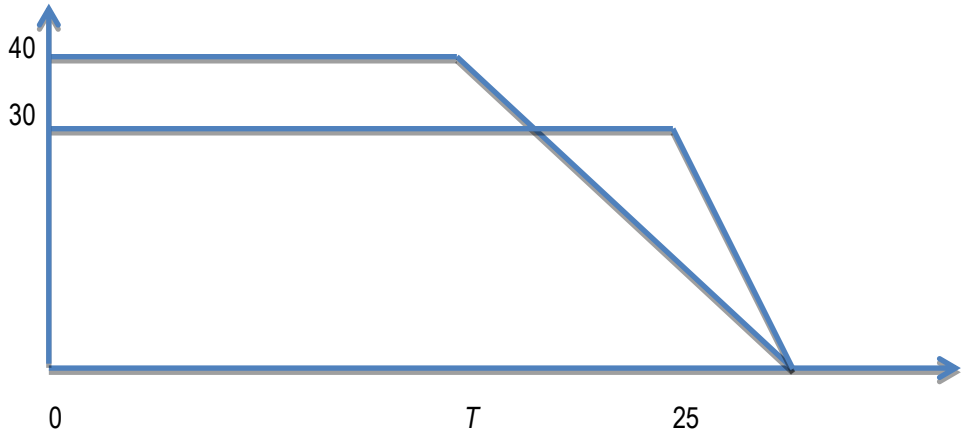
Question Number	Scheme	Marks
4(a)		B1 shape (*M*) B1 figs (40,*T*) B1 shape (*N*) B1 figs (30,25) (4)
(b)	**For N**: $\frac{1}{2}(25+25+t).30=975$ OR $\frac{1}{2}(25+t_1).30=975$ $t=15$ $t_1=40$ **For M**: $\frac{1}{2}(25+t+T).40=975$ OR $\frac{1}{2}(t_1+T).40=975$ $T=8.75$ ($8\frac{3}{4}$ or $\frac{35}{4}$ oe) ALTERNATIVE: They may find t or t_1 , in terms of T, from their (*M*) equation , and substitute for t or t_1 in their (*N*) equation, and then solve for T: **For M**: $\frac{1}{2}(25+t+T).40=975$ OR $\frac{1}{2}(t_1+T).40=975$ $t=(\frac{1950}{40}-25-T)$ $t_1=(\frac{1950}{40}-T)$ **For N** : $\frac{1}{2}(25+25+t).30=975$ OR $\frac{1}{2}(25+t_1).30=975$ sub for t or sub for t_1 $T=8.75$ ($8\frac{3}{4}$ or $\frac{35}{4}$ oe)	M1 A1 **DM**1 A1 M1 A1 **DM**1 A1 (8) **12** M1 A1 **DM**1 A1 M1 A1 **DM**1 A1 (8) **12**
	Notes	
4(a)	First B1 (*M*) for correct shape – *must start and finish on the axes*. Second B1 for 40 and *T* marked clearly (if delineators omitted B0) and correctly Third B1 (*N*) for correct shape – *must start and finish on the axes*. Fourth B1 for 30 and 25 (if delineators omitted B0) marked clearly and correctly **N.B.** If graphs do not cross and/or do not finish at the same point, max score is B1B1B0B1.	