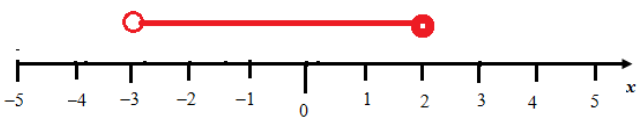
Question	Scheme	Mark	Notes
20 (a)	$1-\frac{4}{t^2}$ (one term correct)	3	M1
	$"1-\frac{4}{t^2}"=0$ (equating their f(t) to 0)		M1 (DEP)
	$t=+2$ (cao)		A1
	$\left("2"+\frac{4}{"2"}\right)-\left(8+\frac{4}{8}\right)$ (oe)	2	M1
	4.5 (metres)		A1
21 (a)	$x+y=550$	1	B1
(b)	$22x+12(y-50)+(12-5)\times 50=8600$ (oe)	1	B1
(c)	$"22x+12"(550-x-50)"+(12-5)\times 50=8600"$ (oe but complete method to solve SEs for x and y with no errors)	3	M1
	NB: c's SEs in (a) and (b) must be linear SEs in x and y with (a) having unit coefs.		A1
	$x=225$		A1
	$y=325$		
22 (a)	$-12<4x$ OR $3x\leq 6$ (oe)	3	M1
	$-3<x$		A1
	$x\leq 2$		A1
	NB: $-3<x\leq 2$ scores A2		
(b)		2	B1 ft
	Open circle at "x=−3" and closed circle at "x=2"		B1 ft
	One single line joining the two circles		