M1.
(a) $y=\tan x$
(b) $y=2 x$

M2.(a) 120
(b) 240 or 300

Either value

M3.
(a) 6
(b) At least 8 of the 11 given points plotted correctly $\frac{1}{(\underline{2}}$ square)

Smooth curve passing through ( $\pm 1$ square) all 11 given points
Ignore the point at $t=12$ even if incorrect
(c) Smallest $t$ value for $d=9$ attempted using their graph (= approx 2.5)
eg horizontal line drawn from $(0,9)$ to first point of intersection with
their graph or mark on $t$ - axis corresponding to first time

$$
\text { when } d=9
$$

12.00 + their 2.5 written as a time of day
oe ft their t value ( ${ }^{\frac{1}{2}}$ square)

SC1 M0 but final answer follows through from their graph
Afft
(d) Largest $t$ value for $d=9$ attempted using their graph (= approx 9.5)
eg horizontal line drawn from $(0,9)$ to second point of intersection
with their graph or
mark on t-axis corresponding to second time when $d$ 9

Their 9.5-4.25 (= 5.25)
Condone their 9.5-4.15
MIDep

5 h 15 min
ft their t value ${ }^{\frac{1}{(2)}}$ square) but do not follow through from use of 4.15
SC2 MO but final answer follows through from their graph
Alft

M4.
(a) $C$

Do not allow if more than one answer selected
(b) $A$

Do not allow if more than one answer selected

