2. a) ATTMPT TO FIND THE DETAILET [CP] MI
SIGHT OF
$$\sqrt{26}$$
 AI
 $(242)^2 + (y-3)^2 = 26$ AI, AI

ATTMPT TO FIND GRAD OF CP F. 9. $\frac{8-3}{-3+2}$ MI

GUE GRAD (ND AS -5 A)

IMPULS THAT GRAD (ND OF $-\frac{1}{1-5}$ II NHEDED BI H $3-8=\frac{1}{5}(3+3)$ & SIMPUFIE TO THE CORRECT AWARE MI

3.
$$\log_5\left(\frac{4t+7}{t}\right)$$
 BI
$$\frac{4t+7}{t} = 25 \text{ o.e. M}$$
ATTEMPTS SOLUTION MI
$$t = \frac{1}{3} \text{ o.e.}$$
 AH

4. a)
$$A = -2$$
 caro B1
 $A = 3$ c.a.o B1

5.
$$a(1+r+r^2+r^2) = 1800$$
 $ar^2 = 8a$
 a

- 7. a) THICKNESS OF 0.4 BI

 0, 1.2, 1.6, 1.8330, 1.9596, 2 AI

 10.4 02 2(---) MI

 10.4 0+2 +2 (1.2 +1.6 + 1.8330 + 1.9596) GREET STENCTURE MI

 A.W.R.T 3.04 AI
 - b) SLATT OF 2X3 OR 6 MI GVU 9.04 A
 - c) INCREASE & IMPUB TRAPEZUM GO UNDER WRULL BI
- 8 a) USE OF $\frac{1}{2}R^2\theta''$ (e.g. $\frac{1}{2}(4r)\theta$ or $\frac{1}{2}(3r)\theta$ o. \in MI $50 = 8r^2\theta \frac{9}{2}r^2\theta$ o. \in AI $P = 7r\theta + 2r$ MI

 SUBSTITUTE OF SORVERING PROPERTY AND ALL

SUBSTITUTED & CORRECTLY DIRNER P=2r+100 A)
b) I) 2-100r-2 M

SFTS FIFIR "2-1007" QUAL TO ZAMO MI ATTIMPTS COPLECT SOLUTION MI SAMOS NOS OR SNZ AI

- $\frac{200}{(5\sqrt{2})^3} > 0 + STATHINM AI$
- C) SUBS 7HAR "V501" IND 2r + 100 MI 2012" OR A.W.R.T 28 A

9.
$$\sqrt{3} + 2\sin 2y = 0$$
 or $\sqrt{3} + \tan 2y = 0$ MI
 $\sin 2y = -\sqrt{3}$ or $\tan 2y = -\sqrt{3}$ MI
 $\sin 2y = -60$ or $2y = \sqrt{3}$ MI
 $2y = 240$ or $2y = 4\pi$ MI
 $\frac{5\pi}{6}$ $\frac{2\pi}{3}$ $\frac{\pi}{3}$ $\frac{\pi}{6}$ $\frac{\pi}{3}$ $\frac{\pi}{3}$ $\frac{\pi}{3}$ $\frac{\pi}{6}$ $\frac{\pi}{3}$ $\frac{\pi}{3}$ $\frac{\pi}{3}$ $\frac{\pi}{6}$ $\frac{\pi}{3}$ $\frac{\pi}{3}$ $\frac{\pi}{3}$ $\frac{\pi}{6}$ $\frac{\pi}{3}$ $\frac{\pi}{3}$ $\frac{\pi}{3}$ $\frac{\pi}{6}$ $\frac{\pi}{3}$ $\frac{\pi}{3}$

10. a)
$$10^2 = 2^2 + 12^2 - 2 \times 2 \times 12 \times 20 = 0$$
 M
 $100 = 2^2 + 144 - (40) = 0$ MI MI
 $32^2 - 402 + 132 = 0$ MI
 $(32-22)(2-6) = 0$ MI
Shows Both 6 & $\frac{22}{3}$ AI

$$\frac{5.7}{\sin 20} = \frac{9.8}{2\sin 6}$$
 M
 $\frac{5.7}{\sin 6} = 0.588...$ M
 $0.588...$ Al Al Al