SIGHT OF -75 BI

$$5y = -40^{\circ}$$
 MI
 $y = -8^{\circ}$ MI
 28° , 64° AI, AI

2.
$$8p + q - 148$$
 MI

 $-\frac{27}{8}p + q - 57$ MI

 $18p + q - 148'' = \frac{1}{8} + q - 57'$ MI At

ATTEMPTE A SOUTED (AT LEAST ONE SLOWIFICANT STIR) MI

TO GET AN EQUATION IN P

SHOWL CORRECTLY $P = 8$ AI

3. a)
$$\frac{\alpha}{2} = 5''$$
 or similar M
 $\alpha = 10$ Al

b) INDICATES
$$2 = 0.1$$
 BI
SIDNS $1 + \frac{5}{2}(0.1) + \frac{45}{16}(0.1)^2 + \frac{15}{8}(0.1)^3$ MI
OR $1 + \frac{1}{4} + \frac{9}{320} + \frac{3}{1600}$ A1.

5. 9)
$$10 + 20 + 40 + 80 + 160 = 310$$

or $\frac{10 \times (2 - 1)}{2 - 1} = 310$
 $\frac{310}{10} = 31$ Al

b)
$$20971510 = \frac{10(2^{h}-1)}{2-1}$$
 o. \in MI
 $2097151 = 2^{h}-1$
or $2^{h} = 2097152$ MI

6. 4)
$$\frac{7}{7} = 10$$
 $\frac{1097}{1097} = \frac{10910}{10910}$ MI
 $\frac{2}{1097} = \frac{10910}{10910}$ MI

b)
$$(\log_2 y)^2 = 9$$
 Don't Auan $\log_2 y^2$ M
 $\log_2 y = \frac{3}{-3}$ Both Auan Recovery Flor $\log_2 y^2$ M
Shows 8 Al

7. a) $\left(\frac{dC}{dV} = \right) 200V^{-2} + \frac{2}{25}$ MI ATTEMPTS DIFFERENTIATION MI CORRECTLY DIFFREATIATY SETS PUAL TO ZERO South QUATION EX 2V2= 5000 M(V= 50 A1 b) SIGHT OF 400 V-3 MI SIGHT OF 40 OR 125000 O.E >0 + concurrion 200 + 5x20 MI

(\$) 8 (£)

8. + r2×II MI TT12 A Zazsin J 41 1-a2 La = IX TIEZ OR SMILAR M Lawardy SIMPURH: TO JET 41 9. STATES (IMPULTS A (8,0) B)

COMPTETES THE SQUAREL JUSCES CAWLUS FOR USES SHOWLED FOR M BI

SHOWLD OR IMPULES M(2,16) AI $\frac{1}{2} \times 4 \times 16 = 32$ MI $\frac{4}{3} \times 4 \times 16$

(0 a) 120° B(

(1). a) ATTIMPTS to FIND y NAMES AT PLENCAR IMPROVALS UI SHOW 4 007 OF 1, 1.4142, 1.6325, 1.8226, 2 AI

$$0.25$$
 $(1+2+2(1.4142+1.6325+1.8226))$

A.W.R.T 1.59 A1

b) 1 1.59 + (3×1) M MUT CONDITION +3

A.W.R.T 12.7 AT RECALLULATION