Nume	rical	(3)
Com	Duting	

θ	4=8in 0 Ay	Δ^2	Δ ³	Δ ⁴ y
10 🕏	0.1736 yo	$\Delta^2 y_o$	Δ ³ μ	
2ο Θι	0.3420 51	- 0.0104	> -0.0048	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
3ο Θ ₁	0.5000 92	-0.0152	- 3 3 m	0.0004
4ο θ3	0.6428 y3 > 0.1428	$\Delta^2 y_4$	-0.0044	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
50 O4	0.7660 4 > 0.1232 9	-0.0196		_ y ₄

4(25).?	Using Forward Difference Formula:
$4iven:$ $x = 15$ $x = \theta = 10^{\circ}$	$\frac{y = y + \rho \Delta y + \rho(\rho - 1) \Delta^{2}y + \rho(\rho - 1)(\rho - 2)}{2!}$
y ₀ = 0·1736 Δ ⁴ y ₀ = 0·1684	- $\Delta^{3}y_{0}$ + $P(P-1)(P-2)(P-3)$ $\Delta^{4}y_{0}$
Θ = O + PL	y = + 1.5 (0.100) + (1.5)(0.5)(-0.0104)
0	

Y	Mon Tue Wed Thu Fri Sat Sun
N	Sin(w) = yp = 0.422609375
-8-	JP
P	Exact = 0.4226 Abs Error = 0.4226 - 0.4226 - 0
N	Appron = 0.4226 Appron = 0.4226
*	Relative
×	Ervor = Golden 0
18	y (16) = Q=45°
10	J - / = G = 93
*	$x = x_n + \rho h$
8	P: N-Mn = 45-50 = (-0.5)
10	n 10
8	2
*	$\frac{y_{1}}{4p} = \frac{y_{1}}{4p} + \frac{p\nabla y_{1}}{4p} + \frac{p(p+1)}{2!} + \frac{p(p+1)(p+2)}{3!} + \frac{p(p+1)(p+2)(p+2)}{3!} + \frac{p(p+2)(p+2)(p+2)}{3!} + \frac{p(p+2)(p+2)(p+2)}{3!} + \frac{p(p+2)(p+2)(p+2)}{3!} + \frac{p(p+2)(p+2)(p+2)(p+2)}{3!} + \frac{p(p+2)(p+2)(p+2)(p+2)}{3!} + \frac{p(p+2)(p+2)(p+2)(p+2)}{3!} + \frac{p(p+2)(p+2)(p+2)(p+2)}{3!} + \frac{p(p+2)(p+2)(p+2)(p+2)(p+2)(p+2)(p+2)}{3!} + p(p+2)(p+2)(p+2)(p+2)(p+2)(p+2)(p+2)(p+2$
7	3
8	+ $P(\rho+1)(p+2)(\rho+3)\nabla^{4}y^{4}$
4	47 79
*	
0	0.7660 + (-0.5)(0.1232) + (-0.5)(0.5)(-0.0196) + (0.5)(0.5)(1.5)(-0.000)
D	31 31
1	
0	+ (-0.5)(0.5)(1.5)(2.5)(0.0004) = 0.7071
-	
0	Sin 45° = 0.7071
•	No. and the second
4	No errors.
D	

