

we have Velocity Vin J. and along their we have

from equ of continuity

Again, from Novier's stock in all 3 directions we have

for steady flow with Uzo, N=0 by zo, we have $\frac{3P}{3x}=0$, $\frac{3P}{3x}=0$

ad Z=h V=V

80

do drag per unitarea for 200

the Man Anditating of to fear discorron .

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IFOS -2019 > Paper II
8) (b) state the Newton-Raphson iteration formula to
  Compute a root of an equation f(x)=0 and hence
  write a program in BASIC to compute a swot of the
  equation, cosx -xex =0
  lying between o and 1. Use DEF function to define
  for and f'(x).
3) By the Newton -Raphson iteration formula, to find
   isolated roots of an equation f(x)=0, we get the
  (n+1)th correct root is,
\chi_{n+1} = \chi_n - \frac{f(\chi_n)}{f'(\chi_n)}
   program =>
     # include (conio.h)
     # include (stdio.h)
     # include (stdlib.h)
     # include (math. h)
     int wer-power, i=0, ent=0, flag=0;
     int coef [10] = 80%;
     float x1=0, x2=0, t=0;
     float fx1=0, fdx1=0;
     yoid main ()
     Obser();
     Printf ("In Enter the total no. of Power:");
     scomf ("1.d", &user - Power);
     for (i=0; i <= USOT _ POWET; i++)
      prantf ("\n x^1/d: "; i);
     Scanf ("7d", & coef [ij);
      Printf ("1");
     printf ("in The polynomial is: ");
     for ( = User - power; i >=0; i-) 11 printing coeff
     printf {"1.dx^7.d", Coef[i],:);
```

```
prantf ("In intitial x=");
scanf ("%, f", fx1);
printf (" in Iteration x1 fx1 f'x1");
do
 cnt++;
fx1 = fdx1=0;
 for ( i = user_power; i>=1; i-)
 S
 fx1+=coef[i] * (pow(x1,i));
 fx1+=coef [0];
 forcli= User - power; i>=0;i-)
 fdx1+=coef [i] * (i * pow(x1,(i-1)));
 x2=(x1-(fx1/fdx1));
 t= X2;
 Prantf ("In %d %0.3f%0.3f% 0.3f ", Cnt, x2, fx1, fdx);
 \chi_1 = \chi_2;
 cutile ((fabs (+-x1)) >=0.0001);
 Printf ("in The scoot of the equation is % f", x2);
 getch();
```



