	2012.0 2012.0 Ann 20 2014 Ann 20 2012 Ann 20 2014 Ann
9-1	Fird a root of the enution $\cos x = xe^x$ using the disection method at
	Find a root of the equation $\cos x = x e^x$ using the disection method at the end of sixth iteration.
->	$f(x) = \cos x = xe^x$
	$V_{EE} = 0.0 \text{ and } 0.0 $
	1(0) = 1 $1(1) = -2.18$
	1 3818 = 91880 + 3.0 = E
	Roots lies between 0 and 1.
	Laterol a had all at publicance in
	$Z_L = 0+1 = 0.5$
	2
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	$\chi(z_1) = 0.05$, roots between 0.5 and 1.
	$Z_2 = 0.5 + 1 = 0.75$
	2
	((Z2) = -0.86, roots between 0.5 and 0.75

	$Z_3 = 0.5 + 0.75 = 0.625$
	$f(z_3) = -0.36$, roots between 0.5 and 0.625
	$Z_4 = 0.5 + 0.625 = 0.5625$
	$f(z_4) = -0.14$, roots between 0.5 and 0.5625
	$Z_5 = 0.5 + 0.5625 = 0.5312$
	$\int (Z_5) = -0.041$, roots between 0.5 and 0.5312.
	$z_6 = 0.5 + 0.6312 = 0.5156$: Appromination to the root is 0.5156
Q - 2	Find a real root of equation $x^3-2x-5=0$ using secant methods correctly to three decimal places.
	$\int (x) = x^3 - 2x - 5 = 0$
	f(1) = -7 $f(2) = -1$ $f(3) = 16$
	$\chi_0 = \chi_1 - \left[\chi_1 - \chi_0 \right] \chi_1$ $\chi_1 = 3$ $\chi_1 = 3$

St. advantage out of particular states	
Q - 3.	Find a real root of 2x-log," = 7 correct to fore decimal places
	Justing Justinian Meurola, ()
>	$\chi(x) = 2x - \log x - 7$
	11-1
	f(3) = -1.4471 $f(4) = 0.398$
	: roots between 3 and 4.
	$ \chi = \frac{1}{2} \left(\log_{40}^{2} + 7 \right) = \beta(\chi) - \boxed{1} $
	$\frac{d^{2} \mathcal{X}_{-}}{2} = \frac{1}{2} \left(\frac{1}{2} , \log_{10}^{e} \right) = 0 \left(\frac{1}{2} \right) = 0 \left(\frac{1}{2} \right)$
	and $ \phi'(x) < 1$ in interval $(3,4)$.
	f(4) < f(3) , the root is near 4, Hence iteration method
	$\chi_{0} = 3.6 \qquad \chi_{1} = \phi(\chi_{0}) = 1 \lim_{10}^{3.6} + 7 = 3.77815$
	$n_2 = \phi(n_1) = 3.78863$
	$\chi_3 = \Phi(\chi_0) = 3.798924$
	$x_4 = \phi(x_3) = 3.79327$
	Hence, 1/2 and 2/4 wer almost equal desired root is [3.78927].

Q-4.	Find a positive real root of $x \log_{10}^{x} = 1.2$, Using bisection method at the end of 5^{th} iteration.
	$f(x) = x \log_{10}^{x} - 1.2$
	f(2) = -0.598, $f(3) = 0.231:. Root lies between 2 and 3.$
	$Z_1 = 2+3 = 2.5$
	$f(z_1) = 0.205$, root between 2.5 and 3. $z_2 = 2.5 + 3 = 2.75$
	$1/(z_2) = -0.008, \text{ roots between } 2.5 \text{ and } 2.75$
•	$Z_3 = 2.5 + 2.75 = 2.625$
	$\int_{(z_3)}^{(z_3)} = -0.099$, roots between 2.5 and 2.625. $z_4 = 2.5 + 2.625 = 2.5625$
	$\int_{1}^{2} (z_{1}) = -0.047$, roots between 2.5 and 2.5625
	$z_5 = 2.5 + 2.5885 = 2.53125$
	Hen: Desired root is matter 2.53125

