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CSC 349A

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The matlab function did not work which I did not know the reason why, even everything

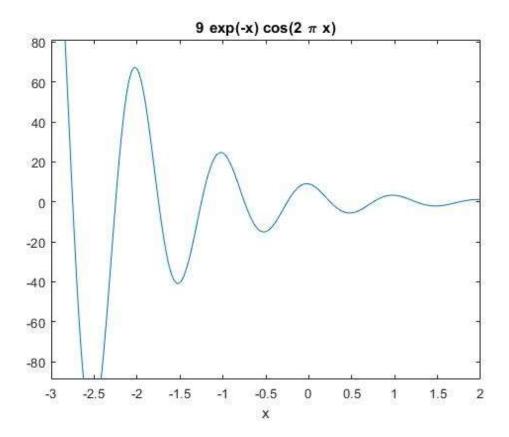
looks fine.

## Question 1

(a)

```
function Newton(x0, e, i_max,f,fp)
i = 1;
xn = x0;
root_found = false;
fprintf(' iteration approximation \n')
while i<= i_max</pre>
  Xn = xn- (f(xn)/fp(xn));
  fprintf('%6.0f %18.8f \n',i,Xn);
  if abs(1-(Xn/xn)) < e
      root =Xn;
      root_found = true;
     break;
  end
  xn= Xn;
  i = i+1;
end
if root_found ==false
   fprintf(['failed to converge in %g iteration\n',i max)
   root = [];
end
```

(b)



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(d)

## Question 2

(a)

