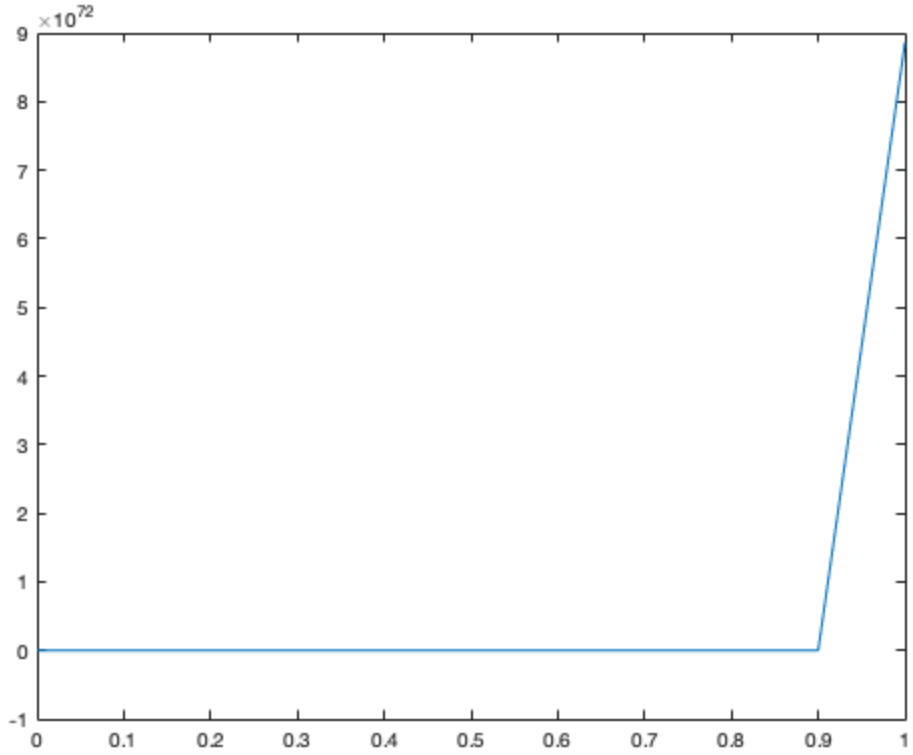
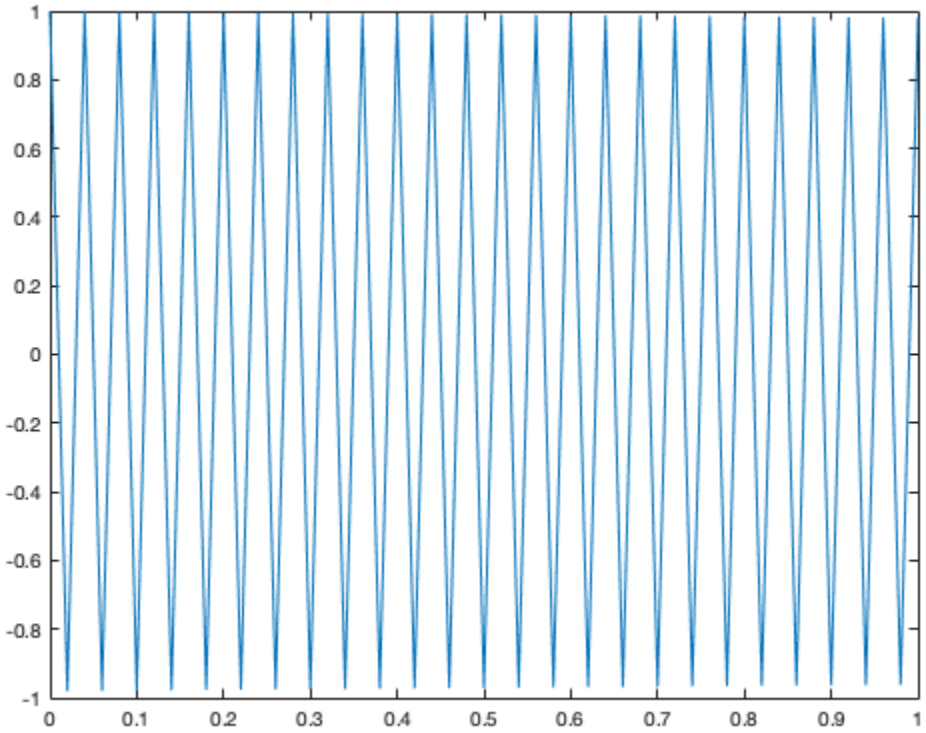
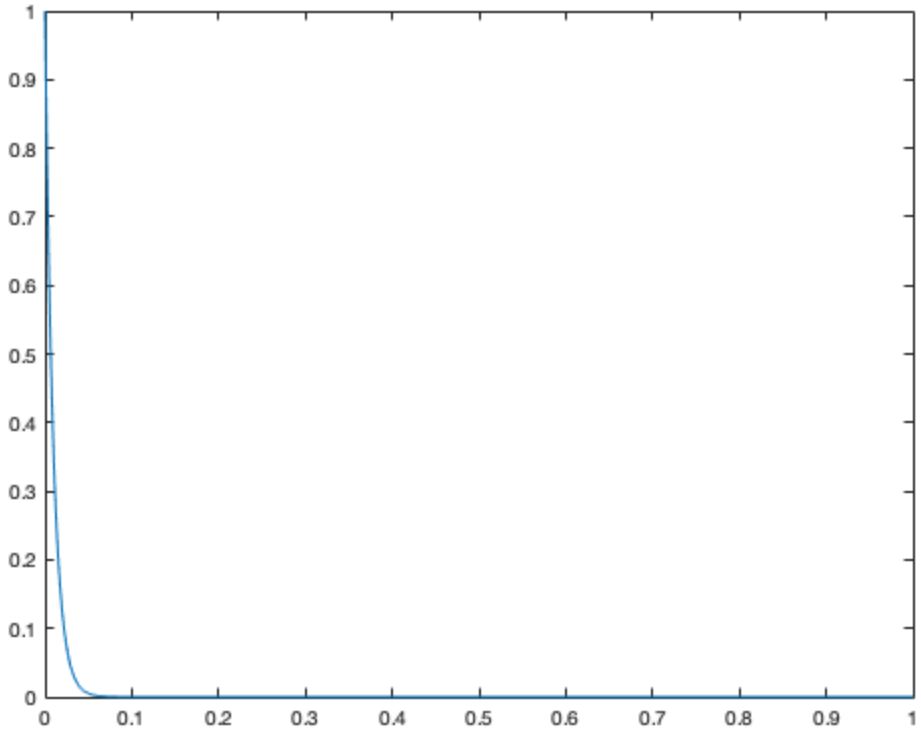
```
% question 2(c)
% step size h = 0.1
h = 0.1;

x = 0:h:1;
y = zeros(size(x));
% initial value
y(1) = 1;
n = numel(y);
% loop
for i=1:n-1
    f = (-100*y(i)+y(i)*y(i));

    y(i+1) = y(i) + h * f;
end
figure(1)
plot(x,y);



h = 0.02;
x = 0:h:1;
y = zeros(size(x));
y(1) = 1;
n = numel(y);
% loop
for i=1:n-1
    f = (-100*y(i)+y(i)*y(i));

    y(i+1) = y(i) + h * f;
end
figure(2)
plot(x,y);



h = 0.001;
x = 0:h:1;
y = zeros(size(x));
y(1) = 1;
n = numel(y);
% loop
for i=1:n-1
    f = (-100*y(i)+y(i)*y(i));

    y(i+1) = y(i) + h * f;
end
figure(3)
plot(x,y);
```


×10^72
9
8
7
6
5
4
3
2
1
0
-1
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1


1
0.8
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
-0.8
-1
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1



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