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Problem 4

Initializing value of x

```
x = 0:0.001:1;
% It creates a matrix having element from 0 to 1 with an increment of
% 0.001. The increment is small so that we can get many values of x
and
% makes our graph smoother.
```

Using plot command

```
plot(x,x,'k')
hold on

%plots y = x using black color and holds the current plot to draw
another
%figure on same graph.

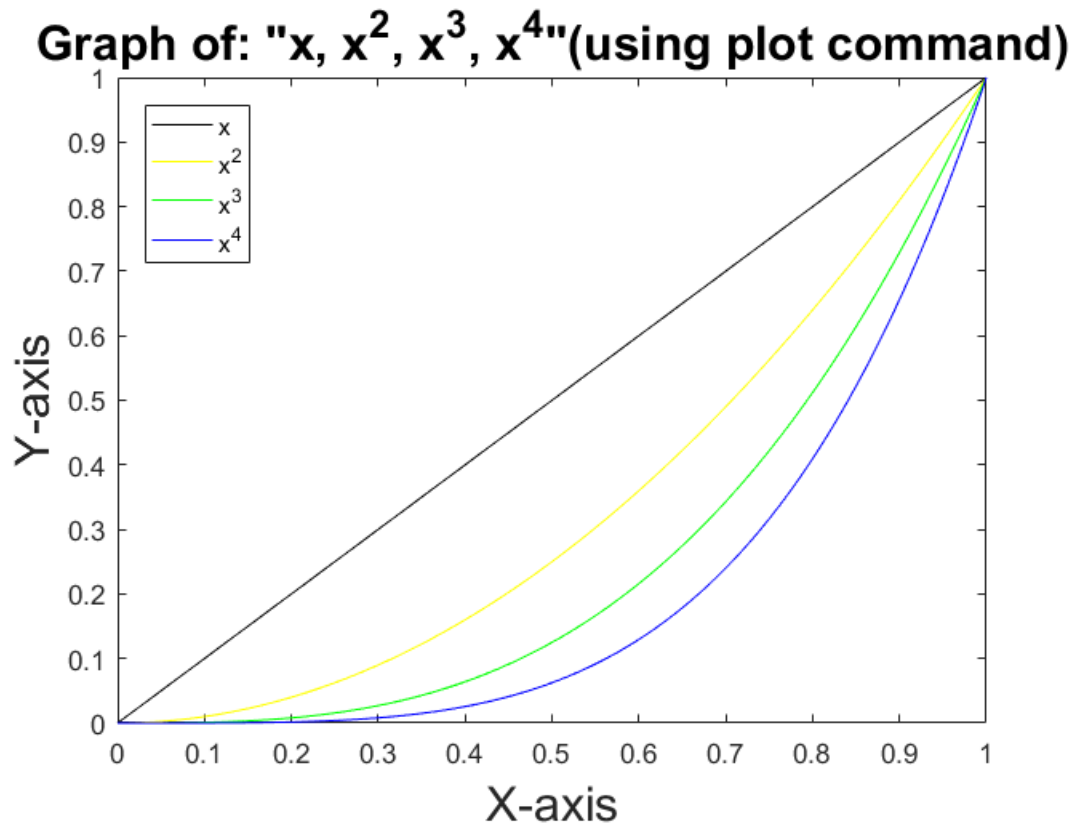
plot(x,x.^2, 'y')
hold on
%plots y = x^2 using yellow and holds the current plot to draw another
%figure on same graph.

plot(x,x.^3,'g')
hold on
%plots y = x^3 using green color and holds the current plot to draw
another
%figure on same graph.

plot(x,x.^4,'b')
%plots y = x^4 using blue color.

title('Graph of: "x, x^2, x^3, x^4"(using plot
command)','fontsize',18)
xlabel('X-axis','fontsize',18)
ylabel('Y-axis','fontsize',18)
legend('x','x^2','x^3','x^4','Location','northwest')
% sets title, x-label, y-label(with font size : 18) and legend of the
graph.
```

```
% it sets legend on northwest location so that it is not overlapped
with
% our curves.
```



Using loglog command

```
figure() % creates new figure.

loglog(x,x,'k')
hold on
%draws y = x using black color and hold the current plot to draw
another
%figure on same graph.

loglog(x,x.^2,'y')
hold on
%draws y = x^2 using yellow color and hold the current plot to draw
another
%figure on same graph.

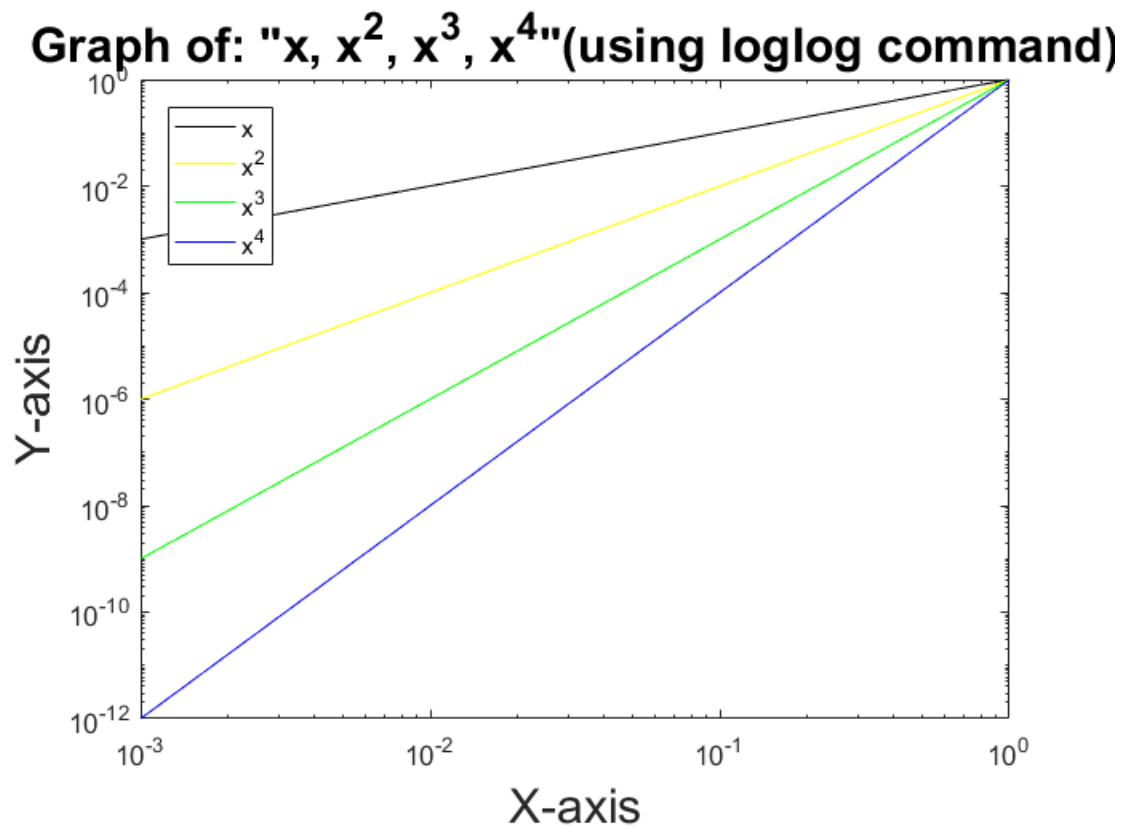
loglog(x, x.^3,'g')
hold on
%draws y = x^3 using green color and hold the current plot to draw
another
%figure on same graph.
```

```

loglog(x,x.^4,'b')
%draws y = x using blue color.

title('Graph of: "x, x^2, x^3, x^4"(using loglog
      command)','fontsize',18)
xlabel('X-axis','fontsize',18)
ylabel('Y-axis','fontsize',18)
legend('x','x^2','x^3','x^4','Location','northwest')
% sets title, x-label, y-label(with font size : 18) and legend of the
graph.
% it sets legent on northwest location so that it is not overlapped
with
% our curves.

```



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