Contents


```
clc;
clear;
close all;
```

Parameters

```
f = 900e6;
R = -1;
Pt = 1;     % Transmitted Power in mW
ht = 50;    % Height of tx antenna (m)
hr = 2;     % Height of rx antenna (m)
d = 1:0.1:10^5;
Gt = 1;
Gr = 1;
```

Two ray ground reflection model

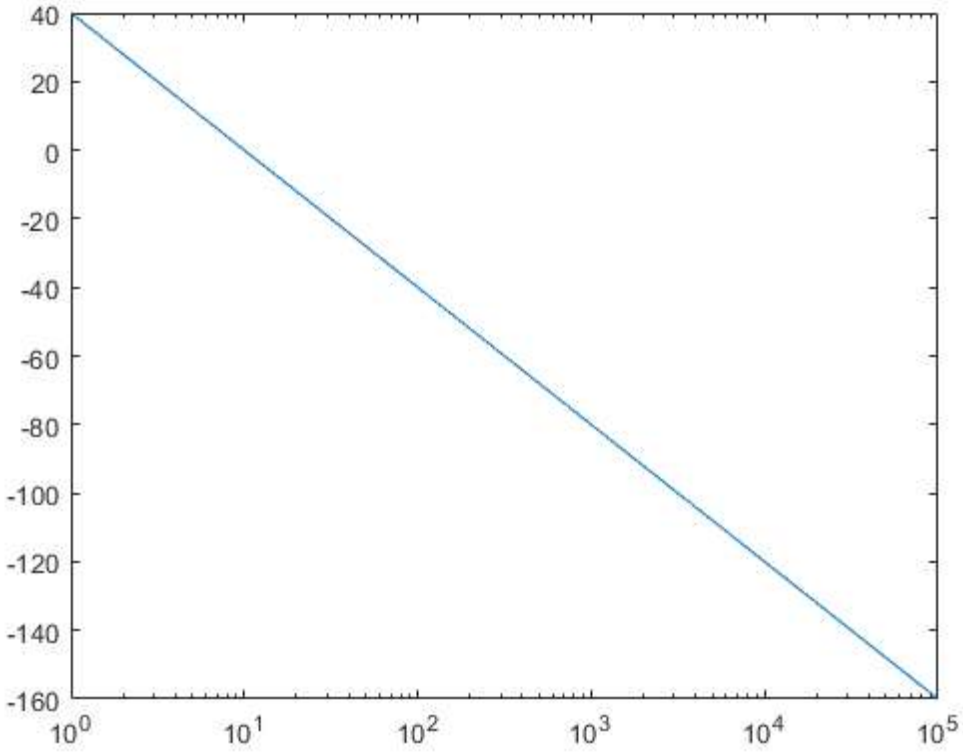
```
d_los = sqrt((ht-hr)^2+d.^2);
d_ref = sqrt((ht+hr)^2+d.^2);
```

Received Power

```
Pr = Pt*Gt*Gr*((ht^2*hr^2)./(d.^4));
Pr_norm = Pr/Pr(1);
```

Plotting

```
semilogx(d,10*log10(Pr));
```



Published with MATLAB® R2021a