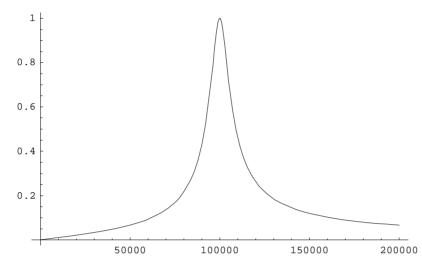
Untitled-1 1

(a) krug -- 1 k
$$\Omega$$
  
 $f[x_{]} = 1 / \sqrt{(1 + 100 * ((x/10^5) - (10^5/x))^2)}$   
 $Plot[f[x], \{x, -1, 2*10^5\}]$ 

Out[35]= 
$$\frac{1}{\sqrt{1 + 100 \left(-\frac{100000}{x} + \frac{x}{100000}\right)^2}}$$

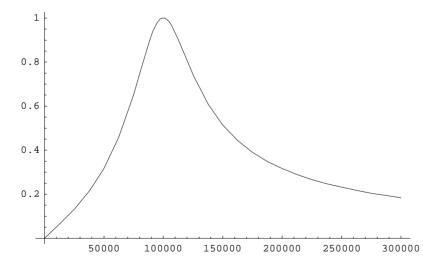


Out[36]= - Graphics -

In[40]:= (a) krug -- 200 
$$\Omega$$
;  

$$f[x_{-}] = 1 / \sqrt{(1 + 4 * ((x/10^5) - (10^5/x))^2)}$$
Plot[f[x], {x, -1, 3 \* 10^5}]

Out[41]= 
$$\frac{1}{\sqrt{1+4(-\frac{100000}{x}+\frac{x}{100000})^2}}$$



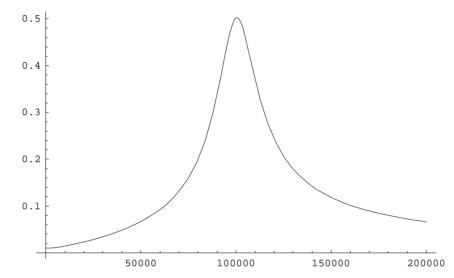
Out[42]= - Graphics -

Untitled-2

$$In[49] := (b) krug -- 1 k\Omega$$

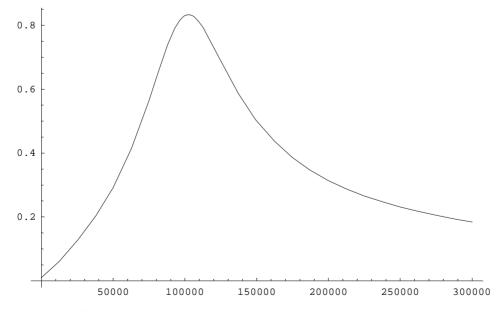
$$f[x_] = \sqrt{((10^16 + 10^8 * x^2) / (4*10^8 * x^2 + (1.01*10^10 - x^2)^2))}$$

$$Plot[f[x], \{x, 0, 2*10^5\}]$$



Out[51]= • Graphics •

 $f[x_{-}] = \sqrt{((10^{16} + 25 * 10^{8} * x^{2}) / (36 * 10^{8} * x^{2} + (1.05 * 10^{10} - x^{2})^{2}))}$   $Plot[f[x], \{x, 0, 3 * 10^{5}\}]$ 



Out[57]= - Graphics -