2.3

$G_t = 20\,dBi =$

$G_r = 15\,dBi =$

$R = 1\,km$

$P_i = 150\,W$

$f = 1\,GHz$

$$P_r = G_r \cdot G_t \cdot \left(\frac{\lambda}{4\pi R}\right)^2 \cdot P_i$$

$$= 10^{1.5} \cdot 10^{2} \left(\frac{3E8/1E9}{4\pi\ 1\,km}\right)^2 \cdot 150\,W = 0.27\,mW$$