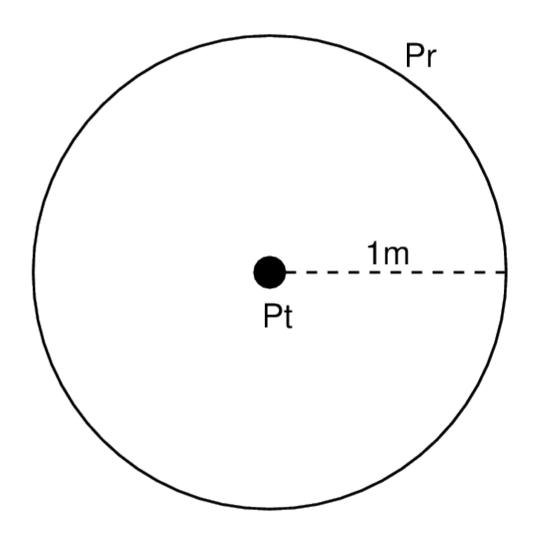
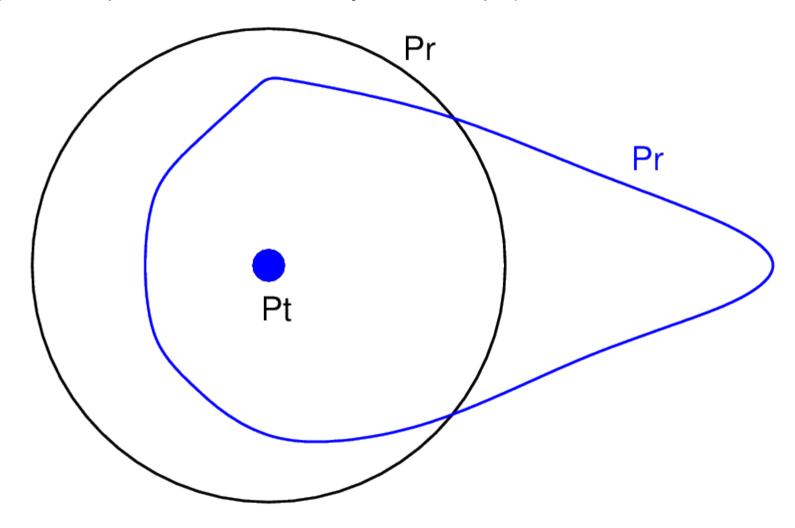
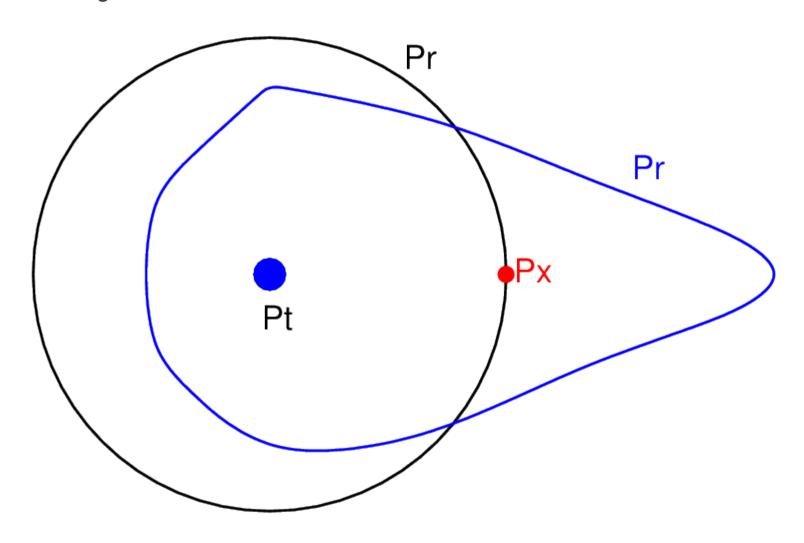
Isotropic antenna. Transmit with power Pt. Power received at all points 1m away is Pr



Directional antenna. Transmit with power Pt. Power received at all points on blue line is Pr (the same power level as 1m away from isotropic)



At the red point (1m away from directional antenna), power received is Px. Px is greater than Pr



The gain of the blue directional antenna is the ratio between power received 1m away From directional antenna (Px) and power received 1m away from isotropic antenna (Pr)

