1 Calculate, the degree exponent of the directed Barabási-Albert model with accelerated growth, assuming that the degree of the newly arriving nodes increases in time as m(t) = tˆtheta.

k_in is proportional to tˆtheta so t is proportional to k_inˆtheta

$$P(k)dk \sim \frac{dt}{dk}dk$$
$$P(k)dk \sim k^{\frac{1}{\theta}-1}dk$$
$$-\gamma = \frac{1}{\theta} - 1$$
$$\gamma = -\frac{1}{\theta} + 1$$