A medal ball =1 kg

Earth Mass= 5.972 × 10^24 kg

Radius of earth =6,356 km

Gravitational constant = 6.67408 × 10-11 m3 kg-1 s-2

Suppose the radius of the earth is shrinking in the rate of losing 50% per year

g = G \* m\_earth / radius\_earth^2

g(x) = G \* m\_earth / x^2

g(x) = (6.67408 \* 10^-11 \* 5.972 \* 10^24) / x^2

g(x) = (3.9858 \* 10^14) / x^2

g(y)= (3.9858 \* 10^14) y^2

Please express this shrinking by a **sequence** of RBF

(At the beginning, you may only need very few neurons

As shrinking continuous, you need more and more neurons to simulate

please stop at the point you need more than 10 neurons