Quiz 4

Name: _____

    Lucky has been gaining weight so fast that his owner believes his weight follows an exponential model. When he was 6 months old, his weight was 2kg. When he was 2 years old, his weight was 7 kg.

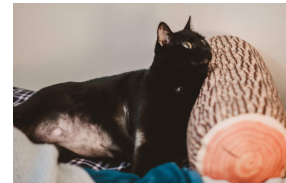(a) Find an function $f(t)$ of exponential type describing Lucky's weight when he is t years old.

Figure 1: Lucky

(b) According to the function you found in part a, what is Lucky's weight when he is 10 years old?

(c) Is Lucky's owner right when she claims that Lucky's weight is following an exponential model? Why? (typically domestic cats live for 15-20 years)