1. The graph below is of the derivative of a function:

![Graph of \( y = F'(t) \)]

If we know that \( F(0) = 3 \) compute the following

(a) \( F(2) \)

(b) \( F(8) \)

(c) The maximum value of \( F(t) \)

(d) The point where the maximum exists

Max. at \( t = \)

2. The rate of growth of a baby whale is given by \( r(t) = 100(.9)^t \) lbs/week with \( t \) the time in weeks after its birth.

(a) What is the weight of the whale after 4 weeks?

Weight =

(b) What is the weight change in the whale between the eighth week and the tenth week?

Change =