- 7. [10 points] Percy brought Sally to the farm one day to pick strawberries. When they first began picking, Sally was picking strawberries at a rate of 357 strawberries per hour, and she was picking strawberries at a rate of 332 strawberries per hour at the end of the second hour.
 - **a**. [4 points] Find a formula for an exponential function R(t) that could model the rate at which Sally was picking strawberries t hours after they began. Give your answer in **exact** form.

R(t) =_____

b. [4 points] Find a formula for a linear function L(t) that could model the rate at which Sally was picking strawberries t hours after they began. Give your answer in **exact** form.

L(t) =_____

- c. [2 points] Now assume S(t) was the actual rate at which Sally was picking strawberries t hours after they began. The rate at which Percy was picking strawberries t hours after they began is given by the function P(t) = S(t+2). Which of the following is a correct practical interpretation of P(t) = S(t+2) in this context? Circle your answer.
 - (a) The rate at which Percy picks strawberries is equal to the rate at which Sally was picking them two hours earlier.
 - (b) Percy picks strawberries for two hours more that Sally.
 - (c) The rate at which Percy picks strawberries is equal to the rate at which Sally will be picking them two hours later.
 - (d) Each hour, Percy picks two more strawberries than Sally.