Lesson Performance Task #2

Section 3.3 Pg. 114

Show your work on this page or an attached page.

Jenna's parents have given her an interest-free loan of $100 to buy a new pair of running shoes. She plans to pay back the loan with monthly payments of $20 each.

   a. Write a function rule for the balance function B(p), where p represents the number of payments that Jenna has made.

   b. After how many payments will Jenna have paid back more than half the loan? Explain you reasoning.

   c. Suppose the loan amount were $120 and the monthly payments were $15. Write a rule for the new balance function and use it to determine how long it would take Jenna to pay off the loan.