Algebra 2

Data Updates

Chapter 9

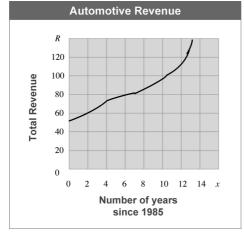
Lesson 9.3, page 552, Exercise 42, Automotive Industry

For 1985 to 1998, the total revenue R (in billions of dollars) from parking and automotive service and repair in the United States can be modeled by

$$R = \frac{-726x^2 + 8166x + 51,755}{0.378x^3 - 14x^2 + 63.3x + 1000}$$

where *x* is the number of years since 1985. Graph the model. In what year was the total revenue approximately \$99 billion?





Lesson 9.6, page 572, Exercise 54, Football Statistics

At the end of the 2000 season, the National Football League's all-time leading passer during regular season play was Steve Young with 2667 completed passes out of 4149 attempts. By the 2000 season, Peyton Manning had moved into the sixth all-time leading passer position with 1014 completed passes out of 1679 attempts. How many consecutive completed passes would Peyton Manning have to make to equal Steve Young's pass completion percentage?

Answer: 183