

Algebra 2

Data Updates

Chapter 11

Lesson 11.3, page 669, Example 7, Cellular Phones

(In 1999 and 2000, the costs increased so the model doesn't work for those years. Examples 6 and 7 cannot be updated.)

Real life caption: By 2000, the number had grown to over 109 million.

Lesson 11.3, page 672, Exercises 74–77, Pager Sales

In 1995 factory sales of pagers in the United States totaled about \$300 million. From 1995 through 2000, the sales increased by about 20.4% per year.

74. Write a rule for pager sales a_n (in millions of dollars) in terms of the year. Let $n = 1$ represent 1995.
75. What did factory sales of pagers total in 1997?
76. When did factory sales of pagers reach \$630 million?
77. What was the total of factory sales of pagers for the period 1995–2000?

Answers:

74. $a_n = 300(1.204)^{n-1}$
75. about \$435 million
76. 1999
77. about \$3010 million