Find constants *a*, *b*, and *c* so that the graph of the function has a relative maximum at (3, 7) and crosses the *y*-axis at (0, 1).

Answer choices:
 , *b* = –4, *c* = –1

 , *b* = 4, *c* = 1

, *b* = 4, *c* = 1

, *b* = –4, *c* = 1

Manufacturing company estimates that the total cost in dollars of producing x radios per day is given by the formula:  Find the number of units that will minimize the average cost

 a. 100

b. 147

c. 36

d. 71