Find constants *a*, *b*, and *c* so that the graph of the function http://www.mhhe.com/media_library/testbank/0073051918/chapter_3_files/q18-1.pnghas a relative maximum at (3, 7) and crosses the *y*-axis at (0, 1).

Answer choices:  
 http://www.mhhe.com/media_library/testbank/0073051918/chapter_3_files/q18-2.png, *b* = –4, *c* = –1

http://www.mhhe.com/media_library/testbank/0073051918/chapter_3_files/q18-3.png, *b* = 4, *c* = 1

http://www.mhhe.com/media_library/testbank/0073051918/chapter_3_files/q18-4.png, *b* = 4, *c* = 1

http://www.mhhe.com/media_library/testbank/0073051918/chapter_3_files/q18-5.png, *b* = –4, *c* = 1

Manufacturing company estimates that the total cost in dollars of producing x radios per day is given by the formula: q162-1.png Find the number of units that will minimize the average cost

a. 100

b. 147

c. 36

d. 71