Question 21
Jan 26, 2026

NC EMPT'S
QUESTION of the week

21. If the zeros of a quadratic function are -5 and 3, one possible quadratic function having these zeros is:

A. $f(x) = (x - 5)(x + 3)$ B. $f(x) = x^2 - 2x - 15$ C. $f(x) = 2x^2 - 4x - 30$

D. $f(x) = x^2 + 2x - 15$ E. $f(x) = x^3 + 2x^2 - 15x$

Last Week's Answer

20. A tire has a circumference of 36 inches. Approximately how many revolutions does the tire make when the tire rolls 1 mile (5,280 ft)?

A. 147 B. 440 C. 1,760 D. 1,760 π E. 15,840

Solution:

It is important to use a consistent unit of measure.
Since 1 mi = 5,280 ft, it would be wise to convert 36 in to 3 ft.
The circumference of a tire is the measure of the distance around the tire.
It also tells how far a tire will roll in one revolution.
To find the number of revolutions of the tire, divide the total distance of 5,280 ft by the distance covered in one revolution: 5,280 ft 3 ft = 1,760 revolutions.

Each week, we'll reveal the answer to the previous week's question!

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