Lecture 28: Graphs of trig functions

Russell Brown

Department of Mathematics University of Kentucky

Question 1.

How many solutions of the equation $\cos(x) = 0.3$ are there with $0 \le x \le 2\pi$? A 0 B 1 C 2

- D 3
- E 4

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What are the period and amplitude of the function $f(x) = -2\sin(3x + 5)$.

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- B Period is 6π and amplitude is 2.
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The amplitude is the height of the graph and is positive. Thus the amplitude is 2. The graph goes through one period as $0 \le 3x \le 2\pi$ or $0 \le x \le 2\pi/3$. Thus the period is $2\pi/3$.

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