

Clicker questions

Week 6 - Class 1

October 6, 2014

Question 1

Which of these statements is correct?

- A every rational function has a slant asymptote.
- B the graph of a polynomial function doesn't have asymptotes.
- C the graph of a rational function can only intersect a slant asymptote.
- D finding asymptotes will not be on the midterm.

Question 2

Consider the rational function $f(x) = \frac{x^2 - 4x + 7}{x - 1} = x - 3 + \frac{4}{x - 1}$. It has:

- A only a horizontal asymptote - the line $y = 1$
- B only a vertical asymptote - the line $x = 1$
- C a vertical asymptote - the line $x = 1$ and a slant asymptote - the line $y = x - 3$
- D a horizontal asymptote - the line $x = 1$ and a vertical asymptote - the line $y = x - 3$
- E a vertical asymptote - the line $y = 1$ and a slant asymptote - the line $y = x - 3$