

Answer on Question #55710 - Math – Calculus

1. One of the following is not true

- A. Every rational function is continuous everywhere except at the points where the denominator vanishes.
- B. The function $y = 1/x$ have an infinite discontinuity at $x = 0$.
- C. The function $y = \cos 1/x$ is undefined at $x = 0$.
- D. The function $y = \cos 1/x$ is defined and possesses a limit at $x = 0$.

Answer: D. The function $y = \cos 1/x$ is defined and possesses a limit at $x = 0$.

2. One of the following is false

- A. Every polynomial of any degree is continuous for all x .
- B, Every polynomial of any degree is discontinuous for all x .
- C. Every rational function is continuous everywhere except at the points where the denominator vanishes
- D. The function $y = 1/x$ have an infinite discontinuity at $x = 0$.

Answer: B. Every polynomial of any degree is discontinuous for all x .