MA 126 — Fall 2016 — Prof. Clontz — Quiz

Name: _____

Choose D for "None of these"

32. Does $\sum_{n=3}^{\infty}\left(\frac{6}{n}-\frac{6}{n+1}\right)$ converge or diverge? If it converges, what is its value?

A. It converges to $\frac{1}{2}$.

B. It converges to 2.

C. It diverges.

33. Does $\sum_{i=0}^{\infty}\frac{(-3)^i}{2}$ converge or diverge? If it converges, what is its value?

A. It converges to -3.

B. It converges to 6.

C. It diverges.

34. Does $\sum_{n=1}^{\infty}\frac{1}{4^n}$ converge or diverge? If it converges, what is its value?

A. It converges to $\frac{1}{3}$.

B. It converges to $\frac{3}{4}$.

C. It diverges.

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35. Does $\sum_{m=0}^{\infty} \frac{2m}{(m^2+1)^2}$ converge or diverge?

A. It converges.

B. It diverges.

C. It both converges and diverges.

36. Does $\sum_{n=2}^{\infty} \frac{1}{\sqrt{n-1}}$ converge or diverge?

A. It converges.

B. It diverges.

C. It neither converges nor diverges.