Quiz 15, February 23, 2016
Find the limit of the sequence whose $n^{\text {th }}$ term is $a_{n}=\frac{1-2 n}{1+2 n}$.
Answer: Divide top and bottom by $n$ to see that

$$
\lim _{n \rightarrow \infty} a_{n}=\lim _{n \rightarrow \infty} \frac{1-2 n}{1+2 n}=\lim _{n \rightarrow \infty} \frac{\frac{1}{n}-2}{\frac{1}{n}+2}=\frac{-2}{2}=-1 .
$$

