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$$-3 - 1 - \frac{1}{3} - \frac{1}{9} - \dots$$

is a geometric series with $a = -3$ and $r = \frac{1}{3}$.

Since $|r| < 1$, the series converges to

$$\frac{a}{1-r} = \frac{-3}{1-\frac{1}{3}} = \frac{-9}{2}$$