Divergent sequence



If a sequence does not converge, then it is said to *diverge* or to be a *divergent sequence*.

For example, the following sequences all diverge, even though they do not all tend to infinity or minus infinity:

1, 2, 4, 8, 16, 32, ... 1, 0, 1, 0, 1, 0, ... 0, 1, 0, 2, 0, 4, 0, 8, ... 1, -2, 3, -4, 5, -6, ...