

a. [6 points] For each of the following sequences or series described below, defined for $n \geq 1$, determine whether they must converge, must diverge, or whether there is not enough information. Circle your answers. No justification is required.

Circle one: **Converges** **Diverges** **Not Enough Information**

Circle one: Converges Diverges Not Enough Information

Circle one: **Converges** **Diverges** **Not Enough Information**

Circle **all** which apply:

Monotone Increasing	Monotone Decreasing	Not Monotone
Bounded	Unbounded	

Circle **all** which apply:

Monotone Increasing	Monotone Decreasing	Not Monotone
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Circle **all** which apply:

Monotone Increasing	Monotone Decreasing	Not Monotone
Bounded	Unbounded	