- 1 Define what do you mean by '1 is a limit point of an infinite sequence x_n '.
- 2 Show that $\frac{1}{p^2}$ converges to zero.
- 3 Show that the sequence $x_n = 2 1/n^2$ converges to 2.
- 4 Consider the sequence $x_n = \frac{n}{2n+1}$. Does x_n converge to any limit? Explain.
- 5 Consider the sequence $x_n = \frac{n^2}{n+1}$. Does x_n converge to any limit? Explain.
- 6 Give an example of a sequence which does not converge anywhere (other than the above sequences and examples discussed in the class).

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