

Title

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Contents

1 Friday February 21st	1
1.1 Singularities	1

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1.1 Singularities

Recall that there are three types of singularities:

- Removable
- Poles
- Essential

Theorem 1.1(3.2).

An isolated singularity z_0 of f is a pole $\iff \lim_{z \rightarrow z_0} f(z) = \infty$.