Source: [[KBhMATH401SubIndex]]

1 | Limits

1.1 | Warming up

Here's a function
$y = \frac{1}{x}$.
We know that it has

- Domain $D(-\infty, 0)(0, \infty)$
- Range $R(-\infty, 0)(0, \infty)$
- $As\ x \to \infty,\ y \to 0$
- Function is *odd*, that is, $f(-x) = -f(x)$

1.2 | The Limit Notation

See [[KBhMATH401TheLimitNotation]]

1.3 | Computing Limits Algebraically

See [[KBMATH401ComputingLimits]]

1.4 | Types of Discontinuity

See [[KBhMATH401Discontinuity]]

1.5 | Error and Epsilon Delta Proofs

See KbhMATH401EpsilonDeltaProofs

1.6 | CN10062020 Continuity

#disorganized #flo
$\lim_{x \to a} f(x) \neq f(a)$.
Sometimes
Notice th edefinitiion implicitely requeres three things if f is contiuous at a

1. $\lim x \to a f(x)$

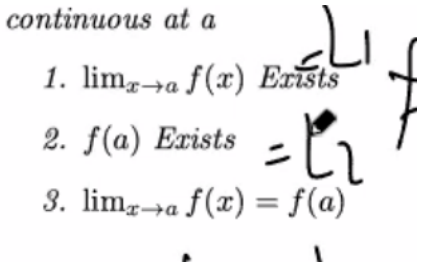

Figure 1: threestepslimit.png