## GOALS:

- a. Left/right limits
- b. Infinite limits

## LEFT/RIGHT LIMITS

- 1. Do examples showing table: Lim, left lim, right lim
- 2. State thm about 2 sided limits: Lim = L iff Left = L and Right = L.
- 3. Draw graph with given properties.
- 4. Find equation of graph with given properties.

## INFINITE LIMITS

- 5. Example of infinite limit:  $f(x) = 1/x^2$
- 6. More examples in pictures (skip most formulas)
- 7. Example left/right with infinite limits: f(x) = 1/x
- 8. Asymptote def: If any limit at a is + or infinity, then x =a is an asymptote.

## LIMIT LAWS

9. Arithmetic. But watch out for division.