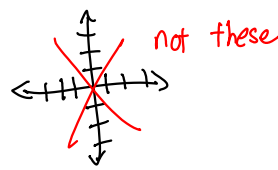


Graphs

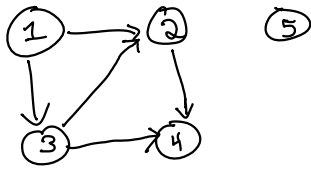
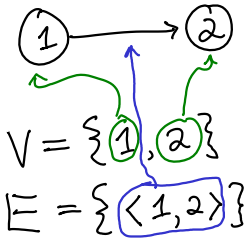


A graph is a pair of sets of vertices and edges.

$$\langle V, E \rangle$$

V can be anything.

E are pairs of vertices $\langle V_1, V_2 \rangle$.
↖ source
↗ destination



In this graph, what are V and E .

$$V = \{1, 2, 3, 4, 5\}$$

$$E = \{\langle 1, 3 \rangle, \langle 1, 2 \rangle, \langle 3, 2 \rangle, \langle 3, 4 \rangle, \langle 2, 4 \rangle\}$$

Example: CS Course Requirements

V are course numbers

E are requirements: must take destination course before source course

