cs.gettysburg.edu/~cpresser/cs301

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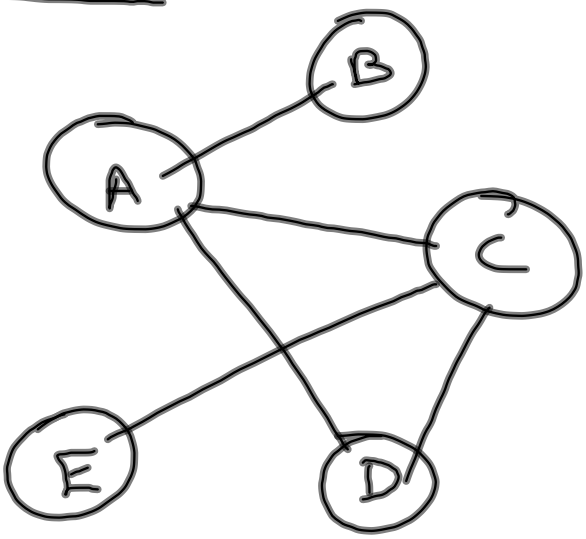
terminal

```
mkdir   cs301
cd      cs301
cd      ..
pwd
```

~ | cs301

```
pdflatex  file.tex
```

Graphs



$G = (V, E)$

$G = ($
$\{A, B, C, D, E\},$
$\{(A,B), (A,C), (A,D), (C,D), (C,E)\})$

How are solutions to problems computed?
(automata)

What problems have solutions?
(computability)

What makes a problem difficult?
(complexity)

alphabet - set of symbols
(non-empty, finite)

$\Sigma = \{a, b\}$

$\Gamma = \{0, 1, 2\}$

string over an alphabet
- seq. of symbols

variables $w =$ "ababa"