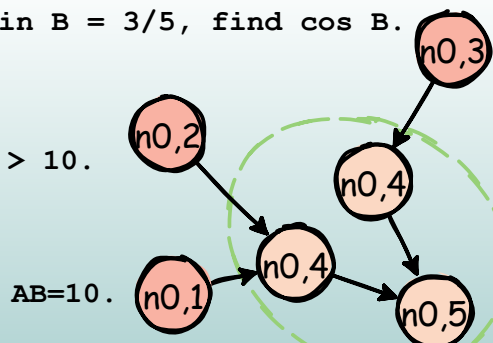


1

Given $\sin B = 3/5$, find $\cos B$.

$AC = b > 10$.

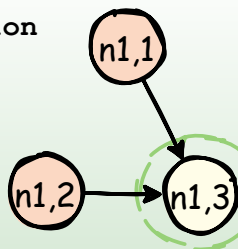
$AB=10$.



2

Let $BC = a_1$, find the equation when $\cos B$ is $4/5$.

Let $BC = a_2$, find the equation when $\cos B$ is $-4/5$.



Markov Process

There are two possible triangles ABC satisfying $AB = 10$, $AC = b > 10$, and $\sin B = 3/5$. Find the positive difference between the lengths of side BC.

Given two triangles ABC satisfying $AB = 10$, $AC = b > 10$, $\sin B = 3/5$, $\cos B = \pm 4/5$ respectively, find the positive difference between the lengths of side BC.

Given $b^2 = a_1^2 - 16a_1 + 100$ and $b^2 = a_2^2 + 16a_2 + 100$, find the positive difference between a_1 and a_2 .



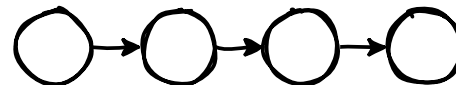
1

2

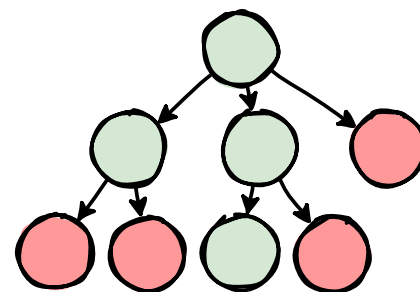
Decomposition

Contraction

Chain of Thoughts



Tree of Thoughts



Graph of Thoughts

Forest of Thoughts

...

Self-Consistency

0

8

16