<div align="center">

Homework 1
M1522.001300 Probabilistic Graphical Models (2016 Fall)
2016-21188 Byeongchang Kim
Date: September 22 Thursday

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Fill anything you want to say about your homework.

1 Conditional Independence Properties [15 points]

Fill your answers.

You can insert your figure by using \begin{figure}. You can refer your figure by using \ref{fig:example_figure}.
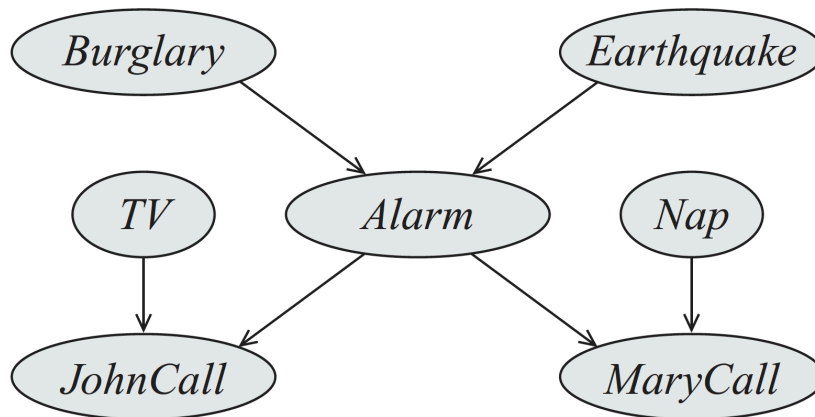

Figure 1: Example Figure

You can enumerate subquestions like this.

1. Enumerate item 1.

2. Enumerate item 2.

3. Enumerate item 3.

You can write your equations by using \begin{aligned}. We highly recommend you to use \newcommand to simplify your equation in LaTeX.

$$\boldsymbol{A} = 12$$
$$\alpha_{12}^{35} = 1234$$
$$\beta_1 = 10$$

You can cite your reference by using \cite{reference_name}. For example, cite Koller's PGM book [1] like this.

2 Variance [5 points]

Fill your answers.

References

[1] Daphne Koller and Nir Friedman. *Probabilistic Graphical Models: Principles and Techniques - Adaptive Computation and Machine Learning.* The MIT Press, 2009.