

## \* Homework #7 & #8

$$P1: f(x_1, x_2) = \frac{1}{2} (x_1 - 1)^2 + 10 (x_2 - 1)^2$$

$$c(x_1, x_2) = (x_1 - 2)^2 + 2 - x_2 = 0$$

$$P2: f(x_1, x_2) = (1 - x_1)^2 + 100 (x_2 - x_1^2)^2$$

$$d(x_1, x_2) = (1 + x_1)^2 - x_2 \leq 0$$

Homework #7      Augmented Lagrangian Method  
Due Date: May 15 (FRI), 23:59 PM

Homework #8      Primal-Dual Method  
Due Date: May 22 (FRI), 23:59 PM