

6.036 MIDTERM SOLUTIONS

(1.1) N (1.2) N (1.3) $\frac{1}{3} + 2$, YES

(1.4) 3RD OPTION (1.5) 1ST + 3RD (1.6)

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PEG 1

(2.1) $\hat{\Theta} = 0$ (2.2) 

PEG 2

PA 1

(2.3) 2ND

(3.1) $\frac{1}{2} (1 - v[\frac{z}{2}])^2 + \frac{1}{2} \|v\|^2$ $v = \begin{bmatrix} 1 \\ 0 \end{bmatrix} \Rightarrow 1$

(3.2) 0, 0 (4.1) 1ST + 4TH

(5.1) $x \leq -1$ (5.2)  (5.3) Y

(5.4) $x \in (1, \infty)$

(5.5) 0, except W-0

(5.6) A
C
B