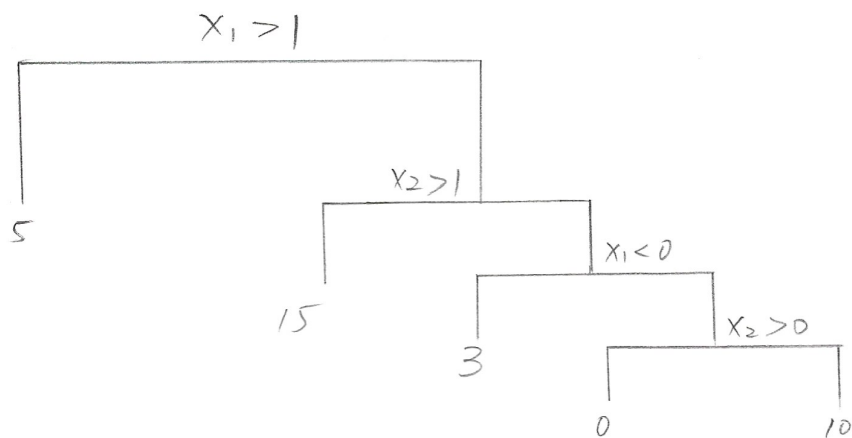12/29/2018

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1. Decision Trees

(a)

Tree structure:
- $X_1 > 1$
  - 5
  - $X_2 > 1$
    - 15
    - $X_1 < 0$
      - 3
      - $X_2 > 0$
        - 0
        - 10

(b) Diagram

Diagram regions (axes X_1 horizontal, X_2 vertical):
- 2.49 (top, $X_2 > 2$)
- −1.06 ($X_1 < 0$, $1 < X_2 < 2$)
- 0.21 ($X_1 > 0$, $1 < X_2 < 2$)
- −1.8 ($X_1 < 1$, $X_2 < 1$)
- 0.63 ($X_1 > 1$, $X_2 < 1$)