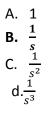
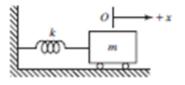
- 1. When apply fuzzy inference, which of the following sequences must be followed (in order)?
 - A. Rule evaluation; Aggregation of the rule outputs; Fuzzification; Defuzzification.
 - B. Fuzzification; Rule evaluation; Aggregation of the rule outputs; Defuzzification.
 - C. Fuzzification; Aggregation of the rule outputs; Defuzzification; Rule evaluation.
 - D. Rule evaluation; Fuzzification; Aggregation of the rule outputs; Defuzzification.
- 2. What is the Laplace transform of a unit step function?



3. If the mass $m = 5 \ kg$ and the spring constant $k = 100 \ N.m$. The natural frequency of the shown system in (rad/sec) is



- A. 20.0
- B. 4.472
- C. 100.0
- D. 5.0