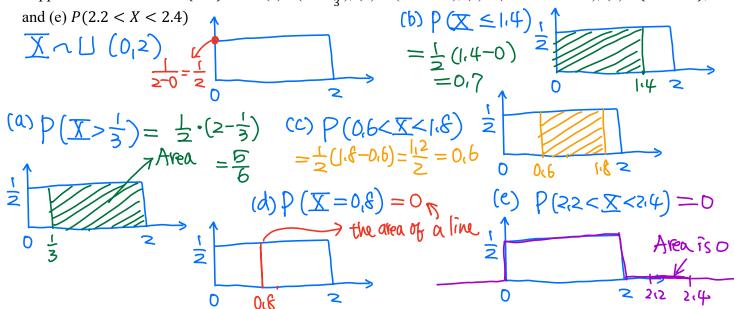
## MAT1372, Quiz7, Fall2025

ID:\_\_\_\_\_\_\_ Name:\_\_\_\_\_\_

- This quiz consists of 2 question for a total of 10 points.
- You have 15 minutes to complete the quiz.
- Show all work and justify your answers.
- Wishing you success.

1. Suppose that X follows U(0, 2). Find (a)  $P(X > \frac{1}{3})$ , (b)  $P(X \le 1.4)$ , (c)  $P(0.6 < X \le 1.8)$ , (d) P(X = 0.8),



- 2. IQ examination scores for sixth-graders are normally distributed with mean value 100 and standard deviation 14.2. (a) What is the probability a randomly chosen sixth-grader has a score greater than 130?
  - (b) What is the probability a randomly chosen sixth-grader has a score between 90 and 115?

