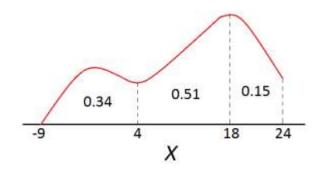
Name:_____ Math 130 Day 10 Lecture Worksheet
Date: Section 7.1: Continuous Random Variables

Ex 1: Let X be a random variable with the following density curve.



- a) What are the possible values of X?
- b) Find $P(18 \le X \le 24)$
- c) Find $P(4 \le X \le 24)$
- d) Find $P(-13 \le X \le 18)$
- e) Find P(X = 4)
- f) Explain the meaning of the probabilities found in (b)-(e)

Ex 2: Suppose X has a uniform distribution over the interval [3, 15].

- a) Find the value of c that makes this curve a probability distribution
- b) Find $P(3 \le X \le 7)$ c) Find $P(8 \le X \le 10)$
- d) Find $P(10 \le X \le 22)$
- e) Find P(X = 7)
- f) Explain the meaning of the probabilities found in (b)-(e)