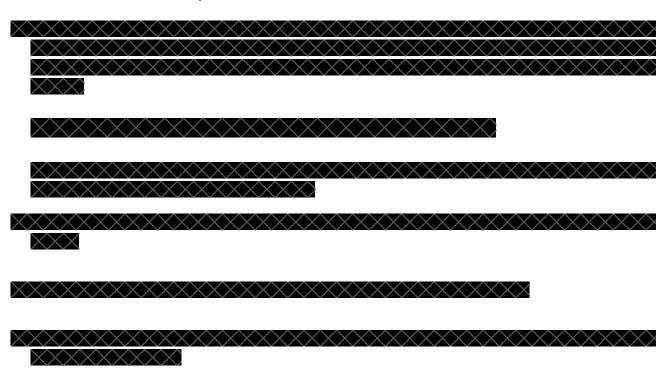
Sample Test Two: Sets 11 to 20



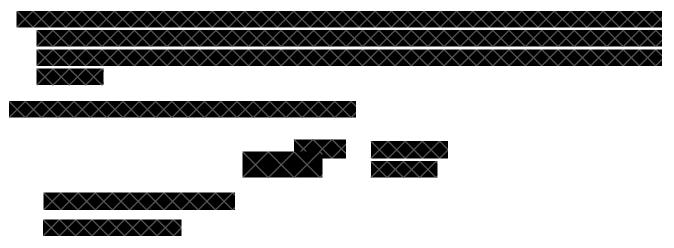
Questions 5 and 6 refer to the following scenario:

Consider the following joint probability function of X and Y.

- **5**. Find $P(Y \ge 1|X = 5)$.
- **6**. Find Cov(X, Y).







11. Suppose that X_1, X_2, X_3 are independent normal random variables with means 10, 11, 15 (respectively), and standard deviations 2, 5, 1 (respectively). Let $Y = 3X_1 + X_2 - 2X_3$. Calculate $P(10 \le Y \le 11.5)$.

Answers:

