3)
$$X$$
 is a geometric random variable.
 $F(x) = 1 - (1-r)^{x}$

$$S = \min \left\{ x_{1}, x_{2}, ..., x_{h} \right\}$$

$$F_{\min}(x) = 1 - \prod_{i=1}^{h} \left(1 - F_{x_{i}}(x) \right)$$

$$= 1 - \prod_{i=1}^{h} \left(1 - r \right)^{x_{i}} = 1 - (1-r)^{hx}$$

$$= 1 - \prod_{i=1}^{h} \left(1 - r \right)^{x_{i}} = 1 - (1-r)^{hx}$$

$$P = 1 - F(s)$$

$$S = \min \{4, 2, 3, 5, 2\} = 2$$

$$S = \frac{5}{100} = \frac{5}{$$