Ex 12B

13b) $P(\geq 1H \text{ and } \geq 1T)$

$$= 1 - P(\text{all } H) - P(\text{all } T)$$

$$= 1 - 2 \times \left(\frac{1}{2}\right)^n$$

$$= 1 - 2 \times \frac{1}{2^n}$$

$$= 1 - \frac{1}{2^{n-1}}$$

$$= \frac{2^{n-1} - 1}{2^{n-1}}$$