

Unit 1 proofs

Artem Lebedev

We have already established that $P(A \cap B) \in [0.25, 0.5]$

$P(A \mid B) = \frac{P(A \cap B)}{P(B)}$ by definition, therefore

$$P(A \mid B) \in \left[\frac{0.25}{0.75}, \frac{0.5}{0.75} \right]$$