$$P(\vec{x} = 3/5 \mid C_{1}\vec{x}) = \frac{3}{5}$$

$$P(\vec{x} = 3/5 \mid C_{2}\vec{x}) = \frac{2}{5}$$

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$$P(\vec{x} = 3/5 \mid C_{2}\vec{x}) = \frac{4}{5}$$

$$P(\vec{x} = 3/5 \mid C_{2}\vec{x}) = \frac{4}{5}$$

$$P(\vec{x} = 3/5 \mid C_{2}\vec{x}) = \frac{2}{5}$$

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$$P(\vec{x} = 3/5 \mid C_{2}\vec{x}) = \frac{3}{5}$$

$$P(x \mid x, x') = P(x = x, b \mid x') \times P(x, x') \times P(x') \times P(x'$$