

Quiz 12 Liam Maher

$$* q_1 = \epsilon + bq_2 + aq_3$$

$$q_2 = aq_1$$

$$q_3 = bq_1$$

$$q_4 = bq_3 + aq_2 + (a+b)q_4$$

$$q_1 = \epsilon + baq_1 + abq_1$$

$$q_1 = \epsilon + (ba+ab)q_1$$

$$\boxed{q_1 = \epsilon (ba+ab)^*}$$