3. (c)
$$x = \lambda_1 x_1 + \lambda_2 x_1$$
 $x = \frac{\lambda_1}{\lambda_1 + \lambda_2} x_1 + \frac{\lambda_2}{\lambda_1 + \lambda_2} x_2$
 $x = \lambda_0 + \lambda_0 + (1 - \alpha) x_1 \in C$

(e) $x = x_0 + \lambda_0 \in C + \lambda_0 + (1 - \alpha) x_1 \in C$

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