

**Definition 1.**  $C$  is a piecewise linear function defined as follows.

$$C(y) = \begin{cases} 8y - 3 & -6 \leq y \leq -3 \\ y - 1 & -3 < y < 4 \\ 2y - 6 & 4 \leq y < 11 \end{cases}$$