

```

procedure improve(( $x, y$ ),  $F, C$ )
  repeat
    ( $x_{cur}, y_{cur}$ )  $\leftarrow$  ( $x, y$ )
     $x \leftarrow$  gradient-projection-x(( $x, y$ ),  $F, C$ )
     $y \leftarrow$  gradient-projection-y(( $x, y$ ),  $F, C$ )
  until  $|F(x_{cur}, y_{cur}) - F(x, y)|$  is sufficiently small
  return ( $x, y$ )

```