Let $F(x,y) = \langle 2x + y + 2, x + 3 \rangle$ C_1 be the upper unit semicircle oriented counterclockwise C_2 be the line segment connecting (1,0) to (-1,0)

Compute the amount of work done by F(x, y) acting on an object

- 1. as it moves along \mathcal{C}_1
- 2. as it moves along C_2

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