1.

By calculating a *line* integral along the boundary of a shape, you can always figure out the *area* contained in the shape.

(a) True
(b) False
Behold, the mechanical planimeter!
What is $\text{div} F$ if $F(x, y) = (x, y)$?

(a) -1
(b) 0
(c) 1
(d) 2
(e) None of these are correct.