Exposition Style

As a pedagogical device for describing functions such as the one below

```
+-----------------
/:
/:  :
/:  :
/:   :
/:    :
/:     :
----------------
|     a
```

where two formulae, f1 and f2, are necessary for adjoining domains but the function is continuous at the boundary point, I usually write the description in the form

\[
f(x) = f_1(x) \text{ for } x \leq a \\
f(x) = f_2(x) \text{ for } x \geq a
\]

The astute reader will note that the domains overlap, but that \( f_1(a) = f_2(a) \), so no semantic ambiguity obtains.