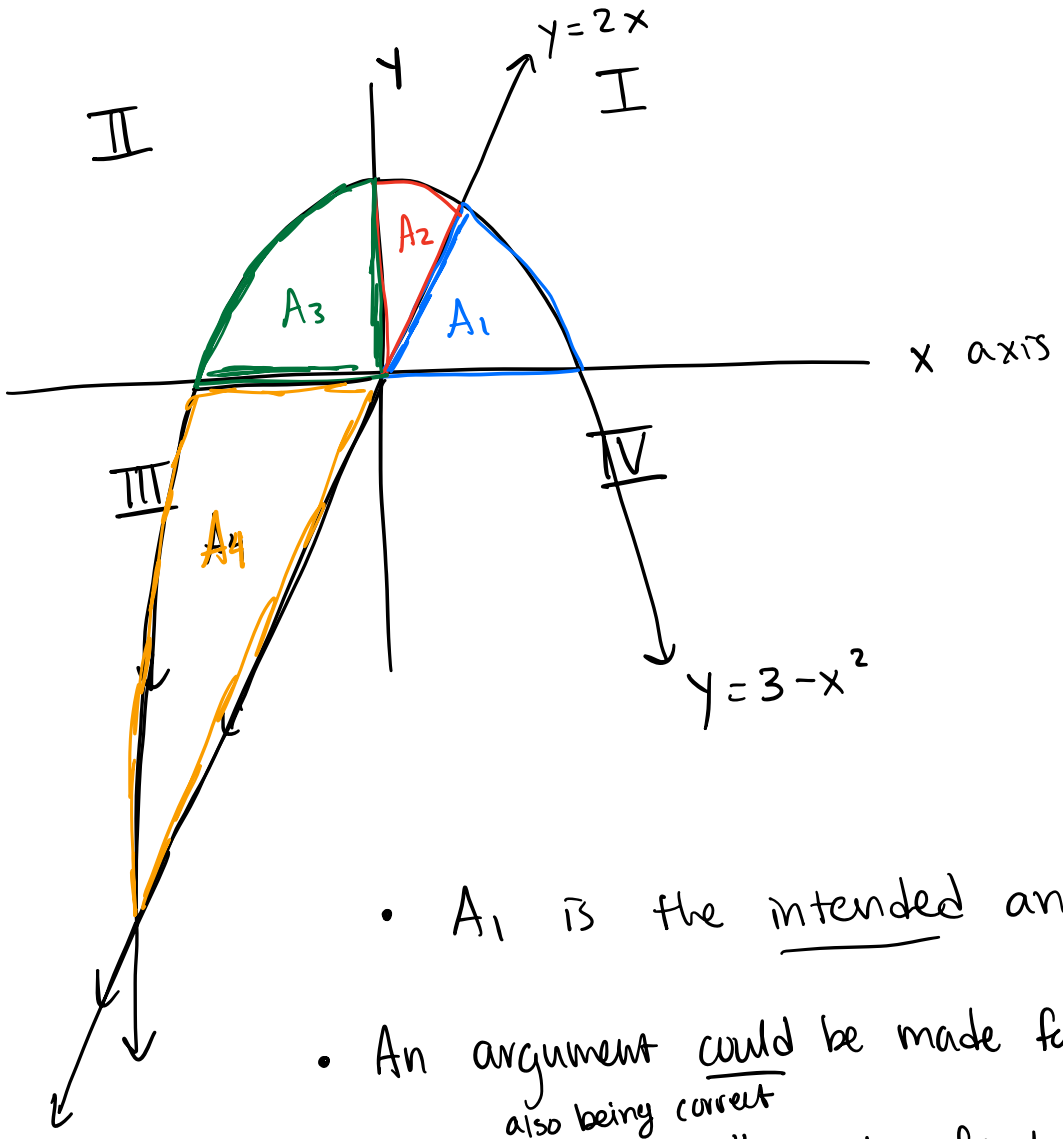
bounded in the

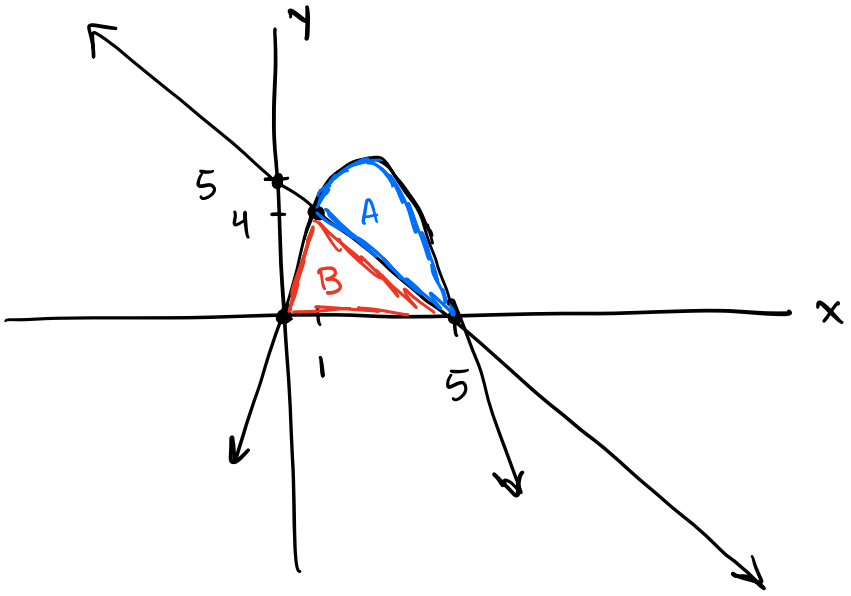
1. 1st quadrant by $y = 3 - x^2$, $y = 2x$, x-axis



- A_1 is the intended answer
- An argument could be made for also being correct A_2 (or $A_1 + A_2$) since "in the first quadrant" is a little vague
- Any answer involving the areas A_3 or A_4 is definitely wrong

Thus, the question is ambiguous. Going forward, you should interpret "in the Nth quadrant" as meaning "the area formed by the given curves only is entirely contained in quadrant N"

2. Bounded by the curves $y = 5x - x^2$ and $y = 5 - x$.



$5x - x^2 = 5 - x \longrightarrow$

$x^2 - 6x + 5 = 0 \longrightarrow$

$(x-1)(x-5) = 0$

$\longrightarrow \quad x = 1 \text{ or } x = 5$

- A is the intended answer
- B is wrong because we did not say the area was also bounded by the x-axis