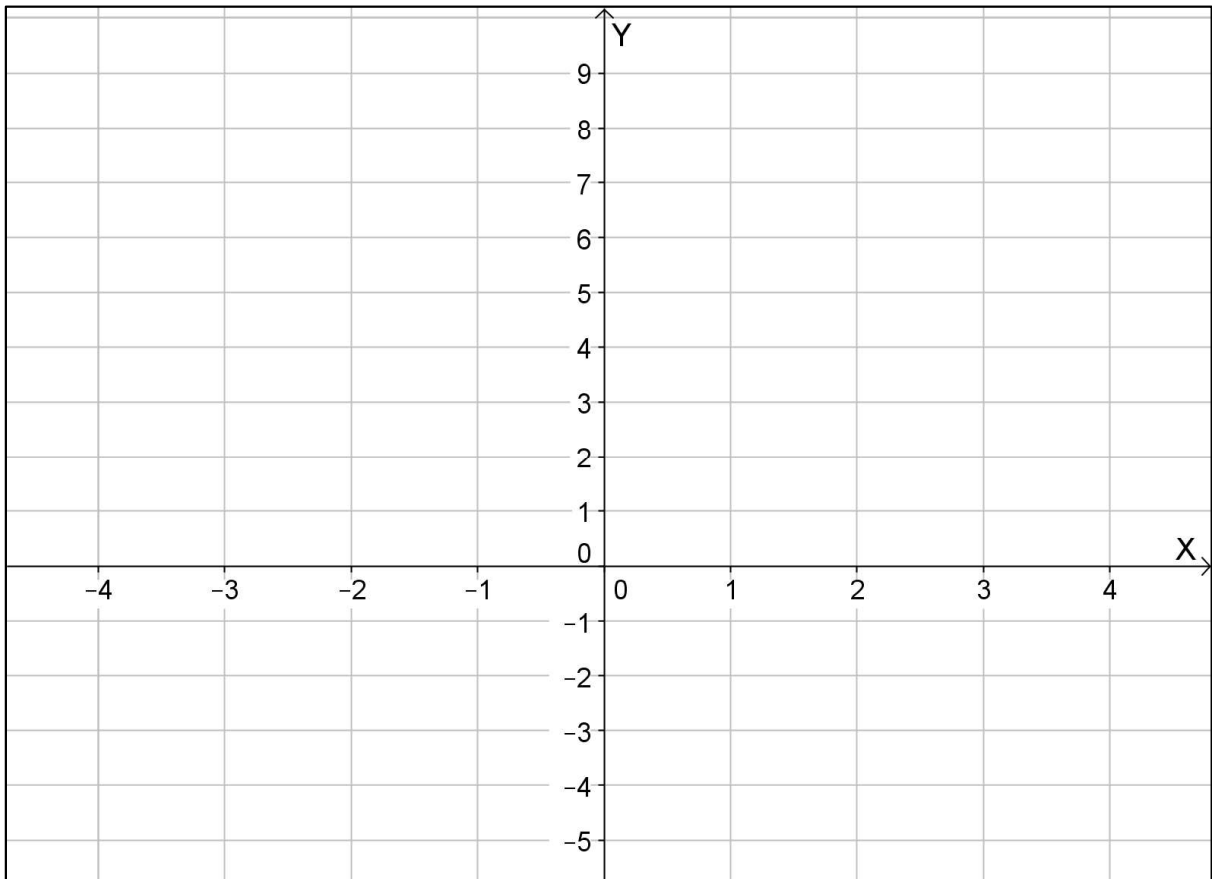## Activity 2

Find the anti-derivative of the function $f(x) = 3$ which passes through the point $(1, 5)$.

Q1. How is this question different to all the previous anti-derivative questions you have encountered?

Q2. Find the indefinite form of the anti-derivative of $f(x) = 3$.

Q3. Represent the indefinite form of the anti-derivative graphically below by sketching the anti-derivatives for each of the following values of $C = \{-3, -2, -1, 0, 1, 2, 3\}$.

Q4. Identify the distinct anti-derivative you were asked to find.