Solve for \((A \Delta B) \cap C = (C \setminus A) \Delta \_\_\_

In this Venn diagram, \((A \Delta B) \cap C\) is shaded, while \(C \setminus A\) is in bold outline.

Our solution must be the union of the two regions with dots. Why? When we take the symmetric difference with \(C \setminus A\), the white region is common to both and drops away, while the two shaded regions remain as desired.

Succinctly, the dotted region is \(C \setminus B\).