

Dati i seguenti  $x_0 \in \mathbf{R}$ ,  $\delta > 0$ ,  $A \subset \mathbf{R}$ , determinare l'insieme  $(]x_0 - \delta, x_0 + \delta[ \setminus \{x_0\}) \cap A$

Risposta:

$x_0 = 2,$	$\delta = 3,$	$A = [-3, 0[$	$] - 1, 0[$
$x_0 = 3,$	$\delta = 2,$	$A = [2, 3]$	$[2, 3[$
$x_0 = 5,$	$\delta = 4,$	$A = [4, 7]$	$[4, 7] \setminus \{5\} = [4, 5[ \cup ]5, 7]$
$x_0 = 6,$	$\delta = 3,$	$A = [6, 10]$	$]6, 9[$
$x_0 = 4,$	$\delta = 2,$	$A = ]5, 7]$	$]5, 6[$
$x_0 = 8,$	$\delta = 2,$	$A = ]3, 6]$	$\emptyset$
$x_0 = 1,$	$\delta = 4,$	$A = [-3, 1]$	$] - 3, 1[$
$x_0 = 7,$	$\delta = 3,$	$A = ]4, 8[$	$]4, 8[ \setminus \{7\} = ]4, 7[ \cup ]7, 8[$
$x_0 = 9,$	$\delta = 6,$	$A = ]5, 16]$	$]5, 15[ \setminus \{9\} = ]5, 9[ \cup ]9, 15[$
$x_0 = 2,$	$\delta = 4,$	$A = [3, 6]$	$]3, 6[$
$x_0 = 3,$	$\delta = 5,$	$A = [8, 9[$	$\emptyset$
$x_0 = 5,$	$\delta = 2,$	$A = ]1, 4[$	$]3, 4[$
$x_0 = 6,$	$\delta = 5,$	$A = [1, 6]$	$]1, 6[$
$x_0 = 4,$	$\delta = 3,$	$A = [0, 8[$	$]1, 7[ \setminus \{4\} = ]1, 4[ \cup ]4, 7[$
$x_0 = 8,$	$\delta = 4,$	$A = ]8, 9[$	$]8, 9[$
$x_0 = 1,$	$\delta = 3,$	$A = [2, 5[$	$]2, 4[$
$x_0 = 7,$	$\delta = 2,$	$A = [9, 10]$	$\emptyset$
$x_0 = 9,$	$\delta = 4,$	$A = [4, 5]$	$\emptyset$
$x_0 = 2,$	$\delta = 5,$	$A = ]0, 2[$	$]0, 2[$
$x_0 = 3,$	$\delta = 4,$	$A = ] - 1, 7[$	$] - 1, 7[ \setminus \{3\} = ] - 1, 3[ \cup ]3, 7[$
$x_0 = 5,$	$\delta = 3,$	$A = [6, 9]$	$]6, 8[$
$x_0 = 6,$	$\delta = 4,$	$A = ]9, 10[$	$]9, 10[$
$x_0 = 4,$	$\delta = 4,$	$A = ]9, 10[$	$\emptyset$