

$f'(t)$	+	-	-	+	
$g'(t)$	-	-	+	+	
x	\rightarrow	\leftarrow	\leftarrow	\rightarrow	
y	\downarrow	\downarrow	\uparrow	\uparrow	
(x, y)	\searrow	\nwarrow	\nwarrow	\nearrow	
t	-2	-1	0	1	2

$$(x, y) \quad (-2, 4) \quad (2, 1) \quad (0, 0) \quad (-2, 1) \quad (2, 4)$$