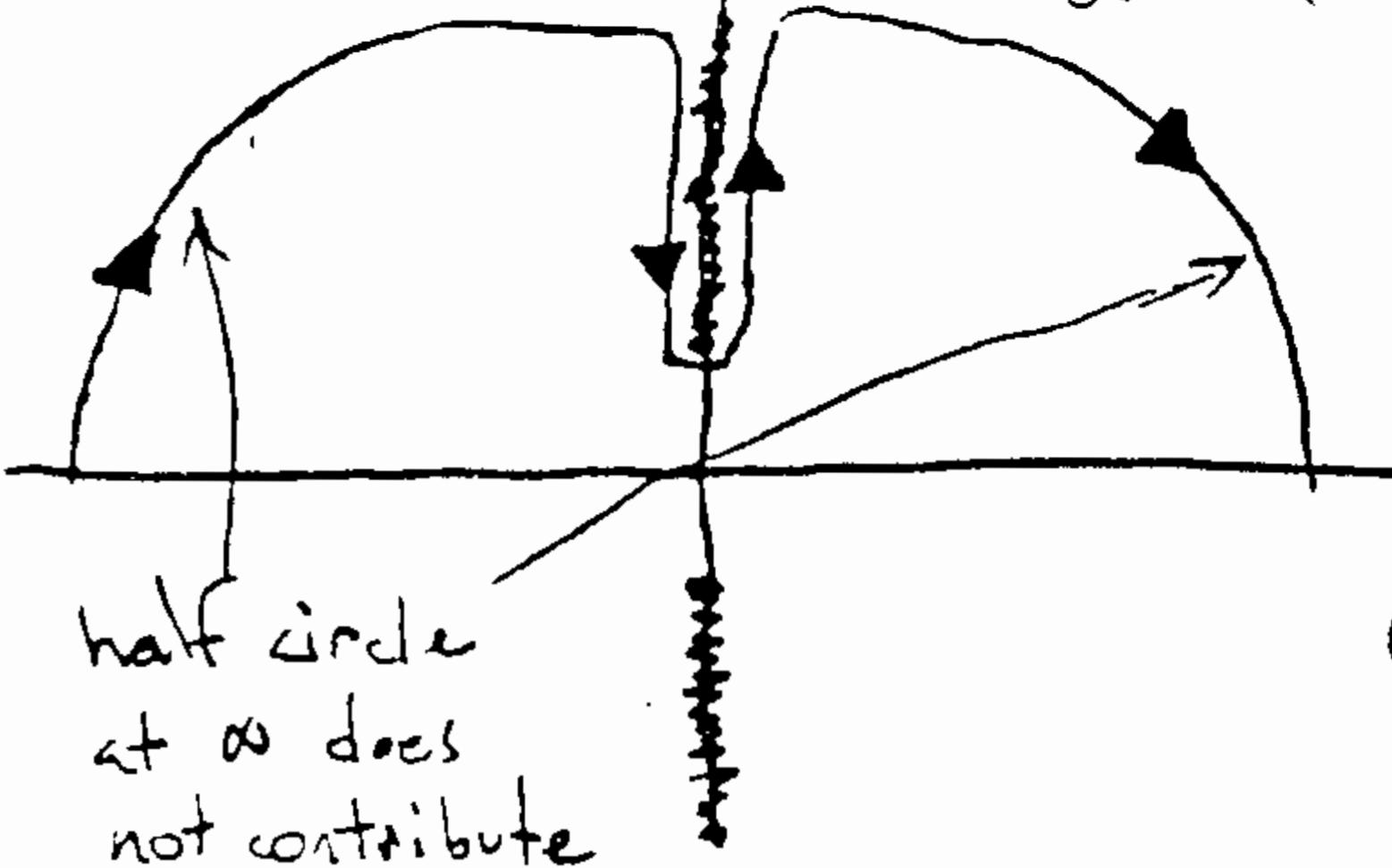
half circle
at ∞ does
not contribute