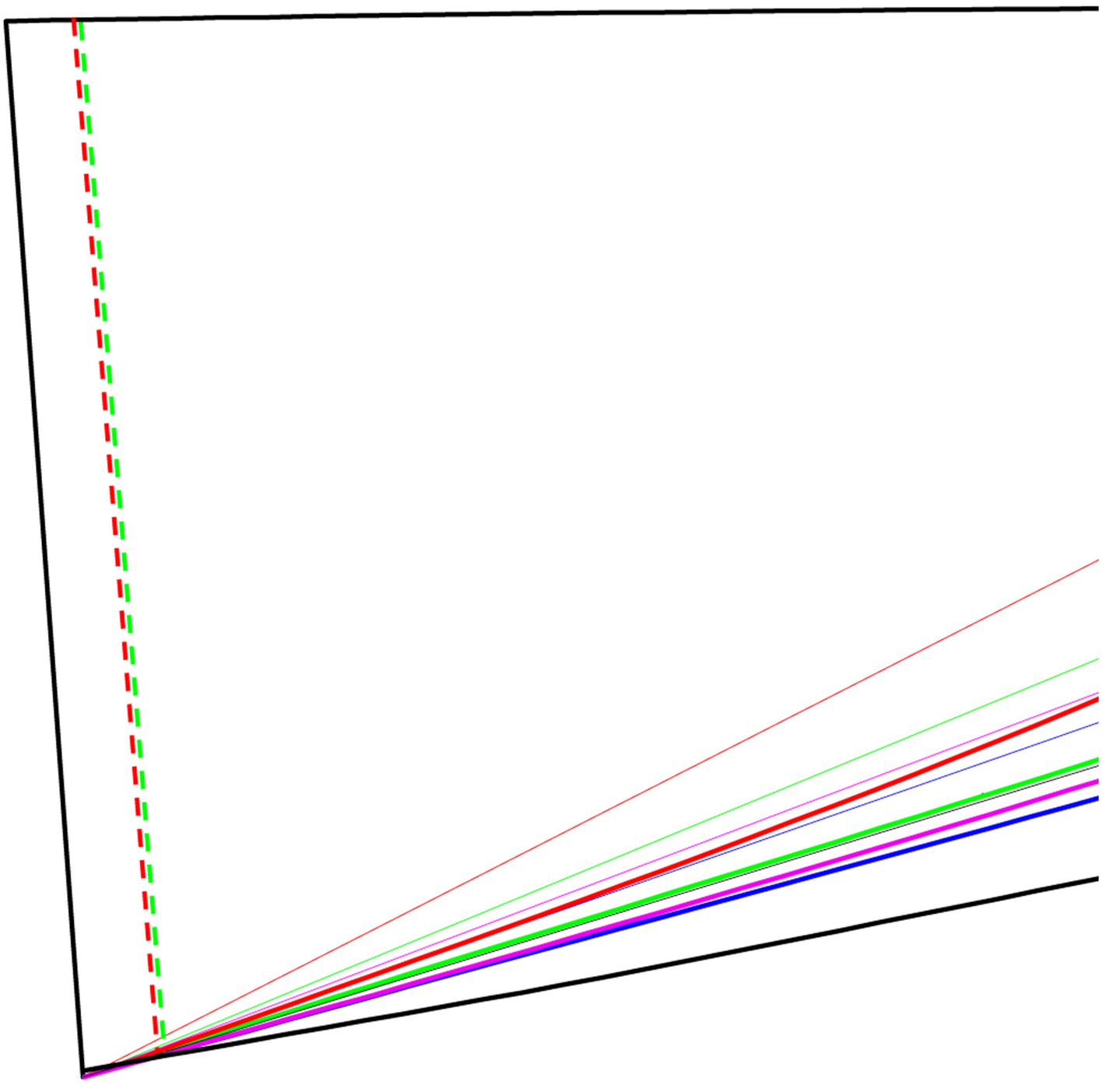main 3 of 3