Hint 1

Hedgehog lives on the equator of the Planet Beta. The house of his friend Bear Cub is located 5 km to the east of Hedgehog's house (also on equator). The morning tea in the Bear Cub's house starts exactly at 9:00 according to the sun clocks (local time). Hedgehog goes out of the house always at 8:00 according to the sun clocks (local time). Hedgehog's speed relative to the surface is 5km/h. By how many days Hedgehog's lateness will sum up to the whole tea time (30 minutes) if the planet radius is 6000 km? The planet's rotation time is exactly 24 hours.