

Challenge Problem #19

Challenge problems are worth 30 points each. 6 points will be earned for the correct answer. This includes using **appropriate units**. 12 points will be earned by **showing the mathematical process** used in getting the answer. The last 12 points will be earned by **writing a complete explanation** of the reasoning used to solve the problem. Good luck.

Patti drives from her house to her grandparents' house on Friday. She left at 4:30 PM and arrived at her grandparents' house at 5:50 PM. On this trip, her average speed was 48 mph. She drove back home on Sunday. She took the same route home and averaged 40 mph. If she left her grandparents' house at 2:00 PM, then what time did she arrive at home?