

**Answer on question #55026, Physics / Astronomy — Astrophysics**

**Question** During the 1960s and 1970s, The Apollo spacecraft took humans to the Moon in three days. Traveling to Mars requires a trip of around 2 AU in total. How long would this trip take, traveling at the same speed as to the Moon?

**Solution** Distance to Moon is approximately  $380 \cdot 10^3$  km. 2 AU is approximately  $300 \cdot 10^6$  km. Difference is 789.5 times. So, if it took them 3 days to get to the Moon, with the same speed getting to Mars will take them  $3 \cdot 789.5 = 2368.5$  days.