

4. /20/ A spaceship is launched from the surface of the Earth with constant speed  $v = (3/5)c$  (relative to Earth). An astronaut on board has her birthday 10 days after the launch by the Earth calendar. Her friends decided to send the congratulation using a laser (assume that this signal propagates in space with speed of light). When should they send this message in order for the astronaut to get it exactly when she will celebrate (of course, by her calendar)?