

Brachistochrone Transit Time Nomogram v03a

Lay straightedge between Engine Type and Ship Mass.

Read ship acceleration where edge crosses Acceleration scale.

Lay edge between acceleration and Destination Distance.

Read transit time where edge crosses Transit Time scale.

Read the ship's deltaV requirements on the Total DeltaV Required scale.

Transit time is for a constant boost brachistochrone trajectory with a turnover at midpoint. If the ship's total deltaV capacity is less than the transit's deltaV requirements, obviously the ship is incapable of this particular brachistochrone.

$accel = thrust / mass$
 $accel = distance / (time/2)^2$
 $accel = (\Delta V/2)^2 / distance$

Winchell Chung
 Nyrrath the Nearly Wise
<http://www.ProjectRho.com/rocket/index.html>

