

## I-130

In the farthest reaches of deep space, an 8000 kg spaceship, including contents, is at rest relative to a space station. The spaceship recoils after it launches a 600 kg scientific probe with a speed of 300 m/s relative to the space station.

### Free-Body Diagrams

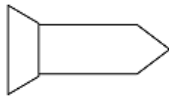
#### Mathematical Analysis

*spaceship*

*probe*

Event 1:

Event 2:



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