What does ADCS stands for?

A Attitude determination and control system	0 🗸
B Antibody–drug conjugates	0 ×
C Guidance, Navigation, Control	0 X
D It's an abbreviation of the thrusters on a spacecraft	0 ×

What is the typical Euler sequence used in space?

A YPR	0 🗸
B PYR	0 ×
C RYP	0 🗙
D The order does not matter	0 ×

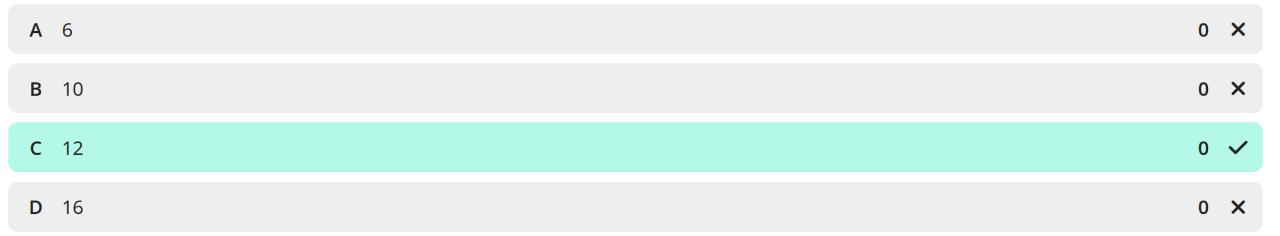
What does the gravity gradient torque tend to do on an elongated object on orbit?

A the long axis will tend to align with the velocity vector	0 X
B the short axis will tend to align with the velocity vector	0 X
C the long axis will tend to align with the direction of gravity force	0 🗸
D the short axis will tend to align with the direction of gravity force	0 X

Which statement is false about magnetic torquers?

A Magnetic torquers are reliable	0 ×
B They need only a very small magnetic field to work	0 🗸
C They need only in LEO	0 ×
D They are lightweight	0 ×

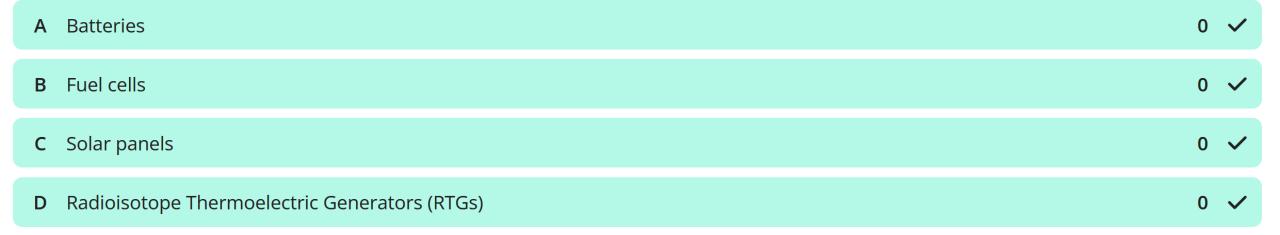
How many thrusters are needed for pure rotation of a spacecraft?



Which statement is false about reaction wheels?

A They use the conservation of angular momentum?	0 X
B If the vehicle needs to change orientation, the angular rotation speed of the wheel is increased.	0 X
C The angular rotation of the wheel is opposite to the vehicle.	0 X
D The angular rotation of the wheel is in the same direction as the vehicle.	0 🗸

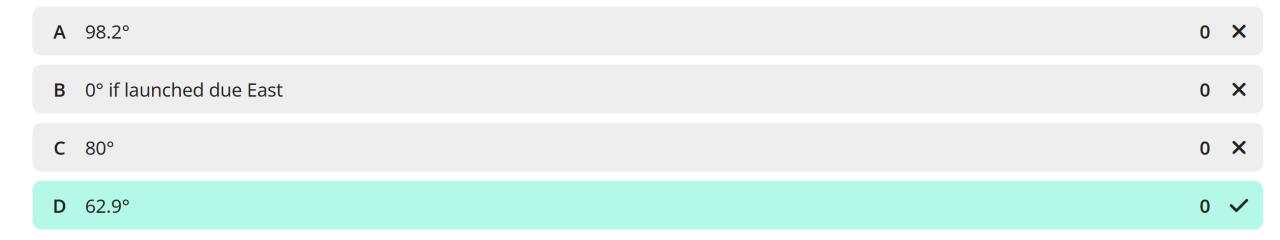
Which electrical power systems have been used on spacecraft?



What are the typical losses during an ascent to space?

A Gravity loss	0 🗸
B Human error	0 X
C Drag loss	0 🗸

The Plesetsk Cosmodrome is at a latitude of 62.9°N. What is the minimal inclination of the orbit of a spacecraft launched from there?



What are the effects of going through the atmosphere?

A High heat load	0 🗸
B Decceleration	0 🗸
C Acceleration	0 X
D High drag on the vehicle	0 🗸