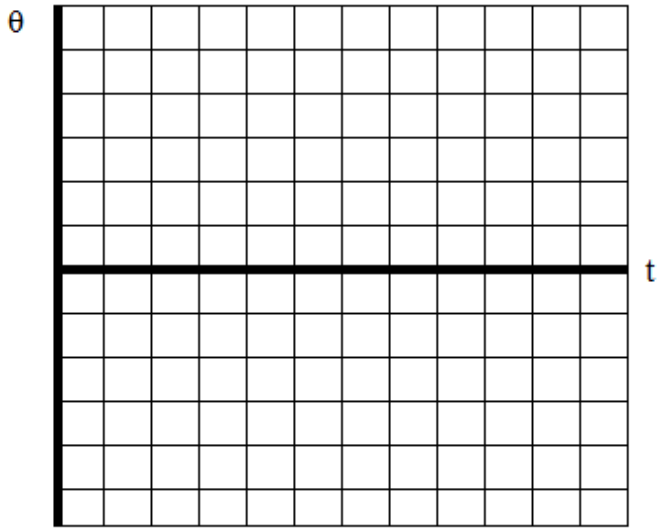
Ranking Theta vs. Time Graph

A graph of an angular position vs. time graph is located below, as well as a chart that describes six scenarios and the corresponding angular positions at different times. On the graph, plot each scenario and then answer the following questions. (Each unit represents 1 second and 10°)

Scenario	t = 2 s	t = 4 s	t = 6 s	t = 8 s
A	10°	20°	30°	40°
B	50°	50°	50°	50°
C	5°	10°	15°	20°
D	-10°	-20°	-30°	-40°
E	-15°	-30°	-45°	-60°
F	-60°	-60°	-60°	-60°



A. Rank each scenario based on its average angular velocity. Rank positive angular velocites as greater than negative angular velocities.

Largest 1. _____ 2. _____ 3. _____ 4. _____ 5. _____ 6. _____ Smallest

Justify your ranking:

B. Rank each scenario based on its average angular acceleration. Rank positive angular accelerations as greater than negative angular accelerations.

Largest 1. _____ 2. _____ 3. _____ 4. _____ 5. _____ 6. _____ Smallest

Justify your ranking: