C - Kinematic Graph Connection
    Level 2

On the next page are 11 kinematic graphs. please categorize them based on what type of motion they describe.

There are 4 groups of 3 graphs One graph is utilized twice.

Category 1: Moving at a constant speed

Category 2: Not Moving

Category 3: speeding up

Category 4: slowing down

C
2



A — position vs. time (concave up curve rising; flat line along bottom)

B — velocity vs. time (line decreasing from upper left to lower right)

C — acceleration vs. time (dotted horizontal line; solid horizontal line below)

D — velocity vs. time (flat line near bottom, starting at 0)

E — acceleration vs. time (horizontal line)

F — position vs. time (concave down curve rising)

G — velocity vs. time (straight line rising from origin)

H — position vs. time (horizontal line)

I — velocity vs. time (horizontal line)

J — acceleration vs. time (horizontal line near top; dotted horizontal line below)

K — position vs. time (straight line rising from origin)