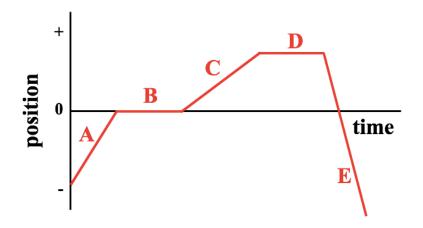
Position Time Graphs Conceptual Analysis

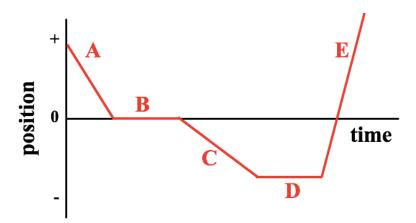
Activity 1: Words and Graphs Question Group 1 Question #1

Five stages - labeled A, B, C, D, and E - of an object's motion are represented by the position-time graph below. During which stage(s) is the object at rest?

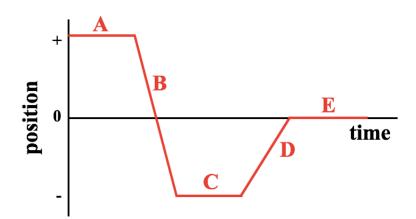


Question #2

Five stages - labeled A, B, C, D, and E - of an object's motion are represented by the position-time graph below. During which stage(s) is the object at rest?

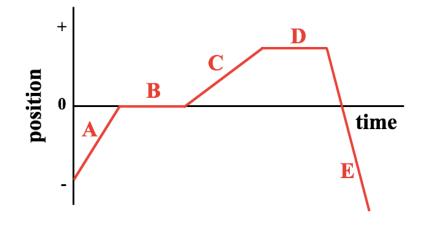


Five stages - labeled A, B, C, D, and E - of an object's motion are represented by the position-time graph below. During which stage(s) is the object at rest?

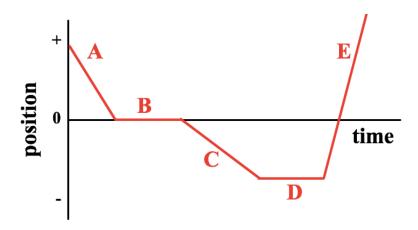


Question Group 2 Question #4

Five stages - labeled A, B, C, D, and E - of an object's motion are represented by the position-time graph below. During which stage(s) is the object moving with a constant speed?

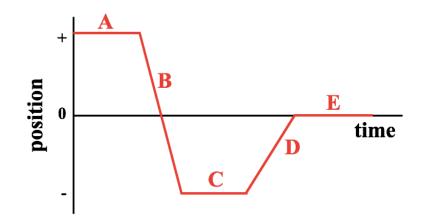


Five stages - labeled A, B, C, D, and E - of an object's motion are represented by the position-time graph below. During which stage(s) is the object moving with a constant speed?



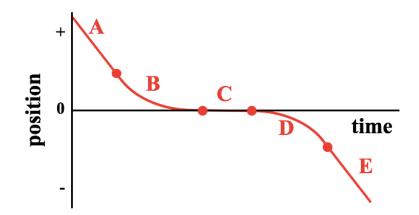
Question #6

Five stages - labeled A, B, C, D, and E - of an object's motion are represented by the position-time graph below. During which stage(s) is the object moving with a constant speed?



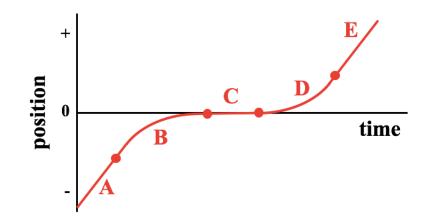
Question Group 3 Question #7

Five stages - labeled A, B, C, D, and E - of an object's motion are represented by the position-time graph below. During which stage(s) does the object have a changing velocity?

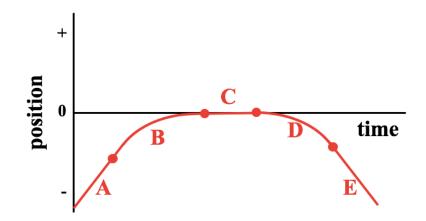


Question #8

Five stages - labeled A, B, C, D, and E - of an object's motion are represented by the position-time graph below. During which stage(s) does the object have a changing velocity?

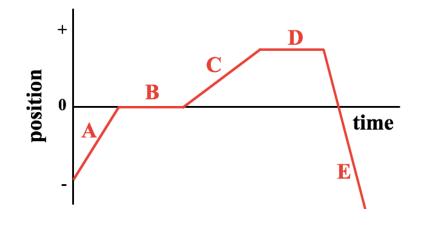


Five stages - labeled A, B, C, D, and E - of an object's motion are represented by the position-time graph below. During which stage(s) does the object have a changing velocity?

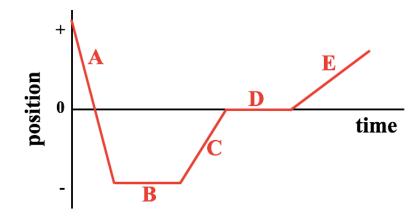


Question Group 4 Question #10

Five stages - labeled A, B, C, D, and E - of an object's motion are represented by the position-time graph below. During which stage(s) does the object have a positive velocity?

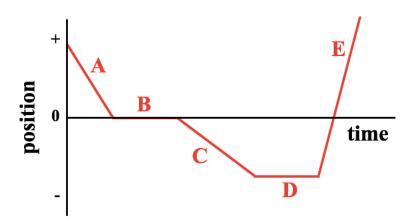


Five stages - labeled A, B, C, D, and E - of an object's motion are represented by the position-time graph below. During which stage(s) does the object have a positive velocity?

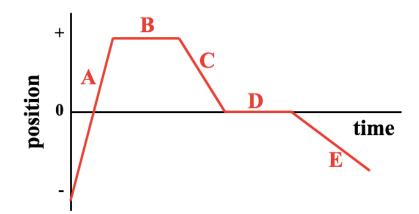


Question #12

Five stages - labeled A, B, C, D, and E - of an object's motion are represented by the position-time graph below. During which stage(s) does the object have a negative velocity?

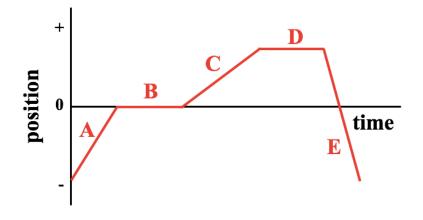


Five stages - labeled A, B, C, D, and E - of an object's motion are represented by the position-time graph below. During which stage(s) does the object have a negative velocity?

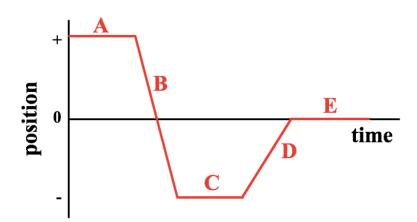


Question Group 5 Question #14

Five stages - labeled A, B, C, D, and E - of an object's motion are represented by the position-time graph below. During which stage(s) is the object moving away from its starting point?

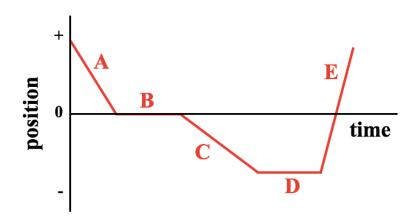


Five stages - labeled A, B, C, D, and E - of an object's motion are represented by the position-time graph below. During which stage(s) is the object moving away from its starting point?

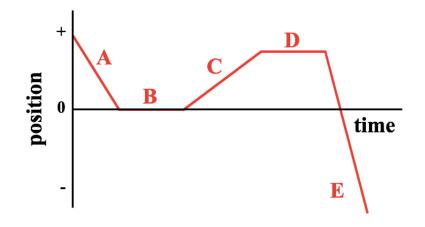


Question #16

Five stages - labeled A, B, C, D, and E - of an object's motion are represented by the position-time graph below. During which stage(s) is the object moving towards its starting point?

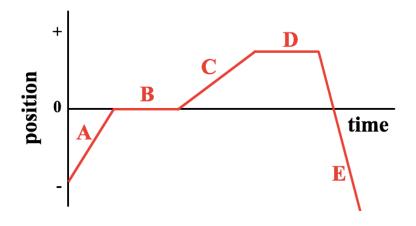


Five stages - labeled A, B, C, D, and E - of an object's motion are represented by the position-time graph below. During which stage(s) is the object moving towards its starting point?

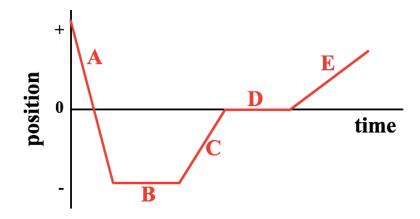


Question Group 6 Question #18

Five stages - labeled A, B, C, D, and E - of an object's motion are represented by the position-time graph below. During which stage is the object moving with the greatest speed?

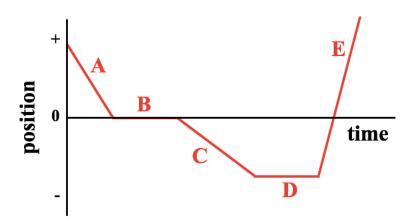


Five stages - labeled A, B, C, D, and E - of an object's motion are represented by the position-time graph below. During which stage is the object moving with the greatest speed?

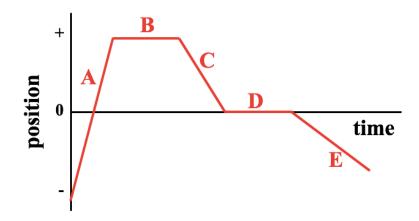


Question #20

Five stages - labeled A, B, C, D, and E - of an object's motion are represented by the position-time graph below. During which stage is the object moving with the smallest speed?

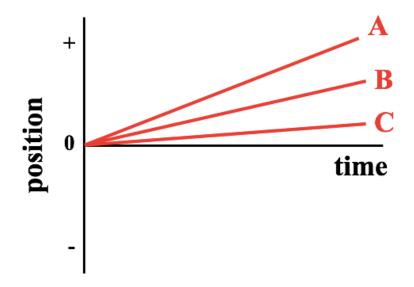


Five stages - labeled A, B, C, D, and E - of an object's motion are represented by the position-time graph below. During which stage is the object moving with the smallest speed?

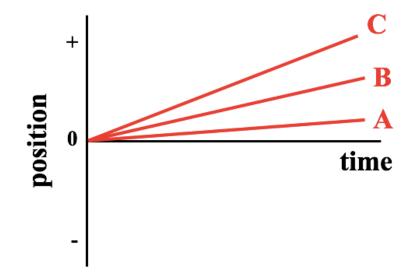


Activity 2: Ranking Tasks Question Group 7 Question #22

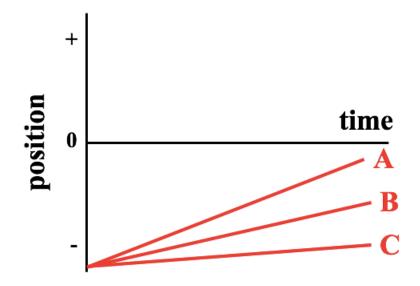
The motions of Objects A, B, and C are represented on a position-time graph. Observe their lines and rank the speeds of Objects A, B, and C from slowest to fastest.



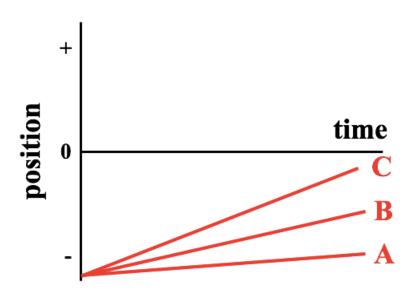
Question #23



The motions of Objects A, B, and C are represented on a position-time graph. Observe their lines and rank the speeds of Objects A, B, and C from slowest to fastest.

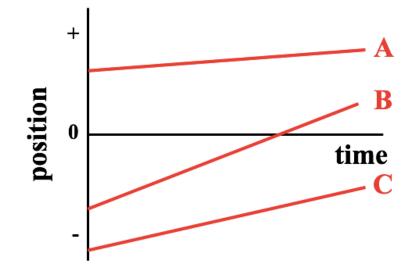


Question #25

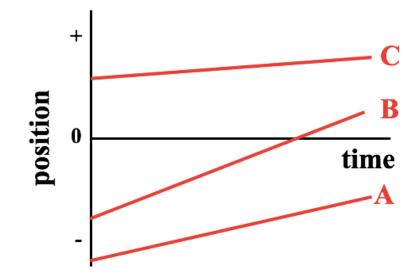


Question Group 8 Question #26

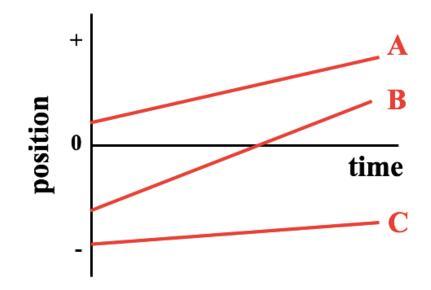
The motions of Objects A, B, and C are represented on a position-time graph. Observe their lines and rank the speeds of Objects A, B, and C from slowest to fastest.



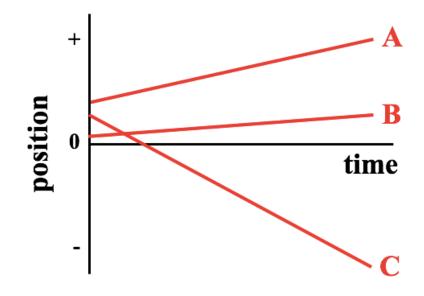
Question #27



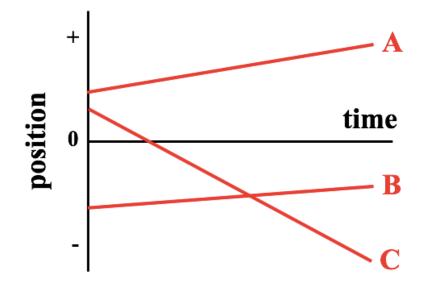
The motions of Objects A, B, and C are represented on a position-time graph. Observe their lines and rank the speeds of Objects A, B, and C from slowest to fastest.



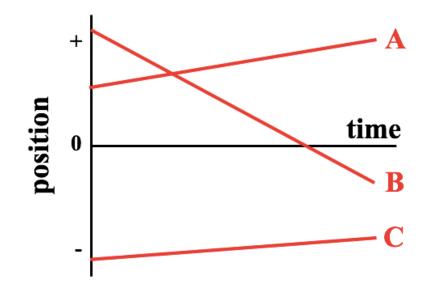
Question Group 9 Question #29



The motions of Objects A, B, and C are represented on a position-time graph. Observe their lines and rank the speeds of Objects A, B, and C from slowest to fastest.

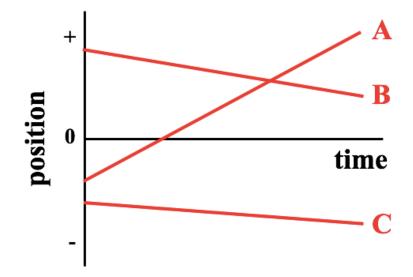


Question #31

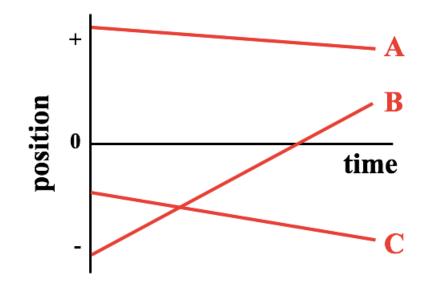


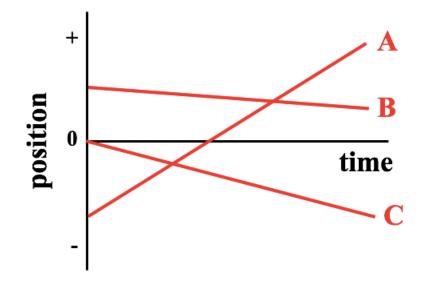
Question Group 10 Question #32

The motions of Objects A, B, and C are represented on a position-time graph. Observe their lines and rank the speeds of Objects A, B, and C from slowest to fastest.



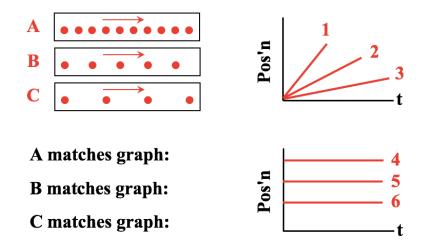
Question #33



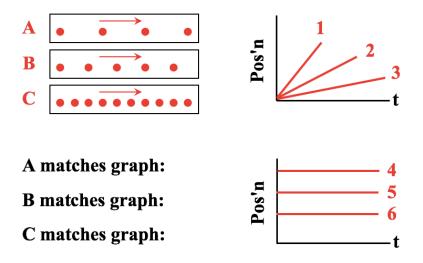


Activity 3: Dots and Graphs Question Group 11 Question #35

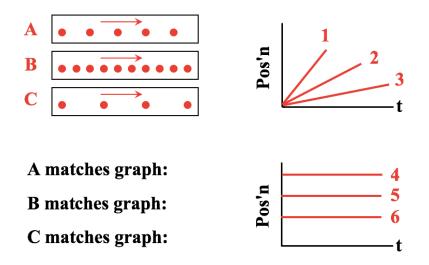
Consider the dot diagrams below for Objects A, B, and C. The arrow represents the direction of travel. Match the motion of Objects A, B, and C to one of the lines on the graph.



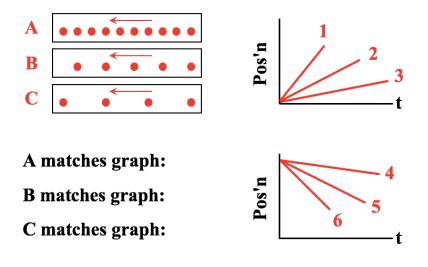
Question #36



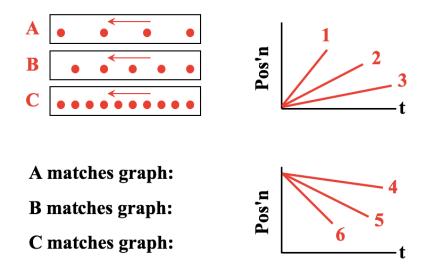
Consider the dot diagrams below for Objects A, B, and C. The arrow represents the direction of travel. Match the motion of Objects A, B, and C to one of the lines on the graph.



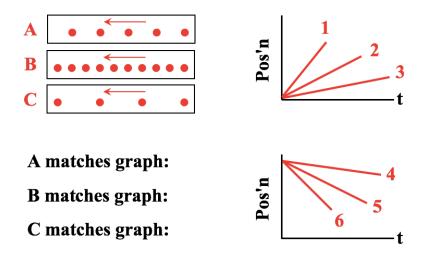
Question Group 12 Question #38



Consider the dot diagrams below for Objects A, B, and C. The arrow represents the direction of travel. Match the motion of Objects A, B, and C to one of the lines on the graph.

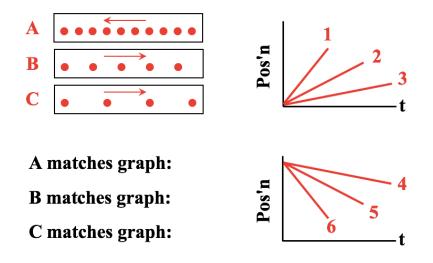


Question #40

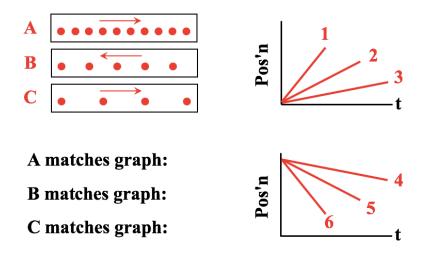


Question Group 13 Question #41

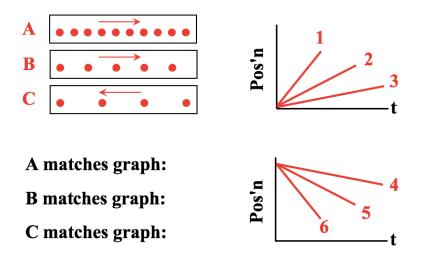
Consider the dot diagrams below for Objects A, B, and C. The arrow represents the direction of travel. Match the motion of Objects A, B, and C to one of the lines on the graph.



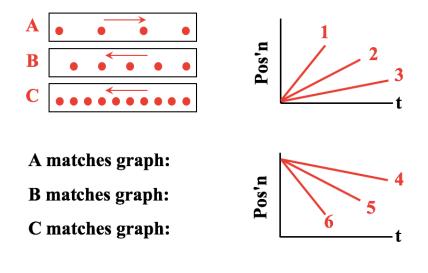
Question #42



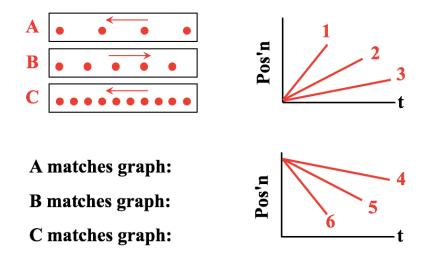
Consider the dot diagrams below for Objects A, B, and C. The arrow represents the direction of travel. Match the motion of Objects A, B, and C to one of the lines on the graph.



Question Group 14 Question #44



Consider the dot diagrams below for Objects A, B, and C. The arrow represents the direction of travel. Match the motion of Objects A, B, and C to one of the lines on the graph.



Question #46

