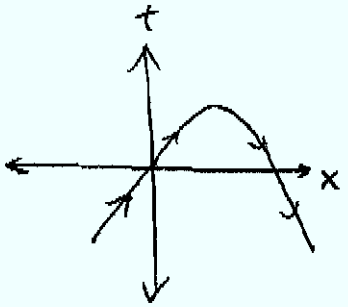
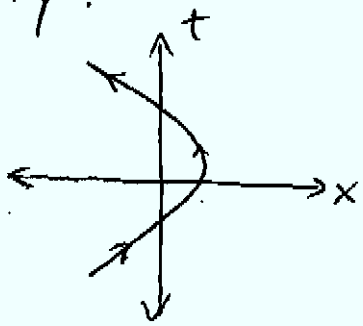
① Which graph represents the trajectory of a ball which moves in the $+\hat{x}$ direction, stops, and reverses its velocity?

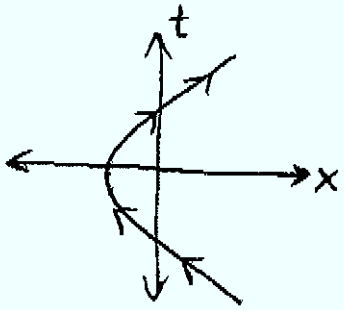
A)



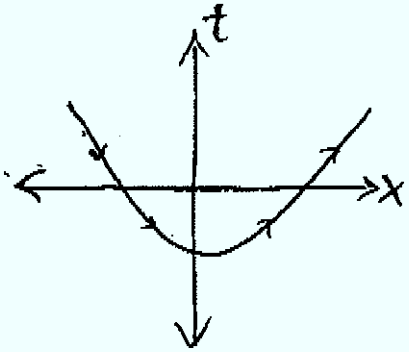
B)



C)



D)



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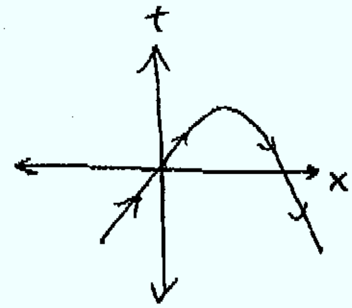
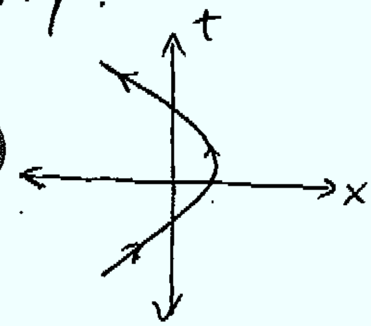
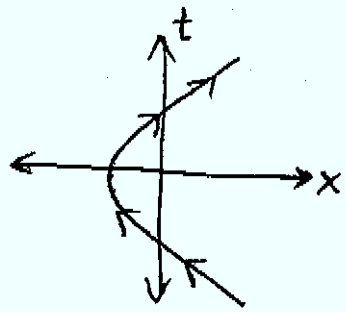
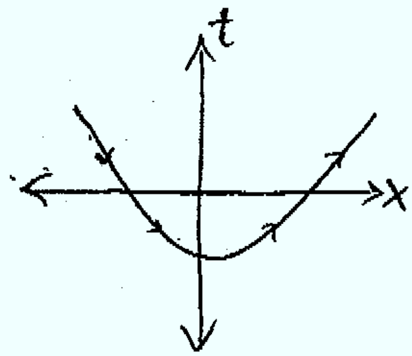
A) 

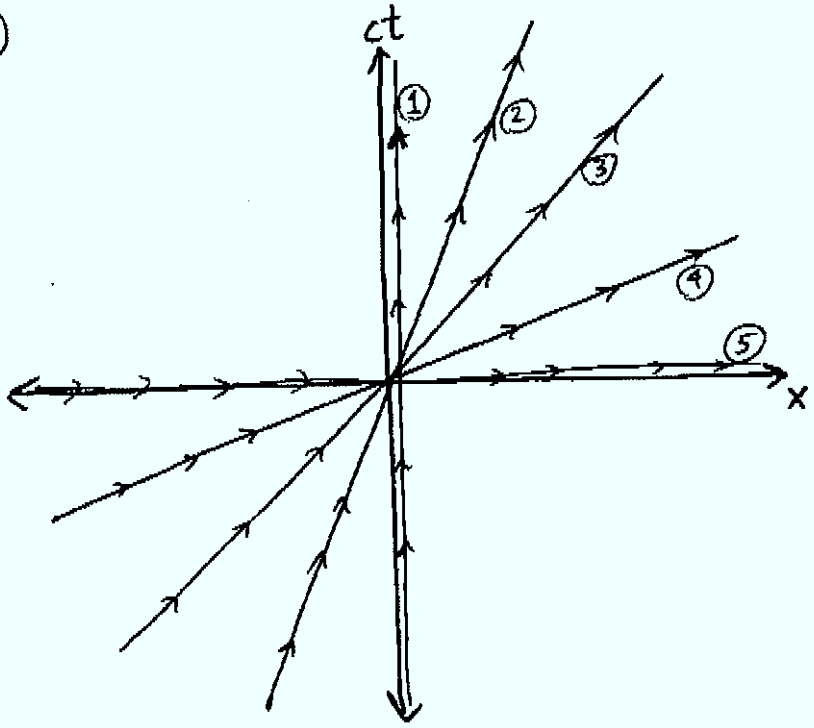
(B) 

↑ time

C) 

D) 

(2)



Which paths on the diagram correspond to a stationary object and an object moving at velocity $0 < v < c$?

A) (1), (4)

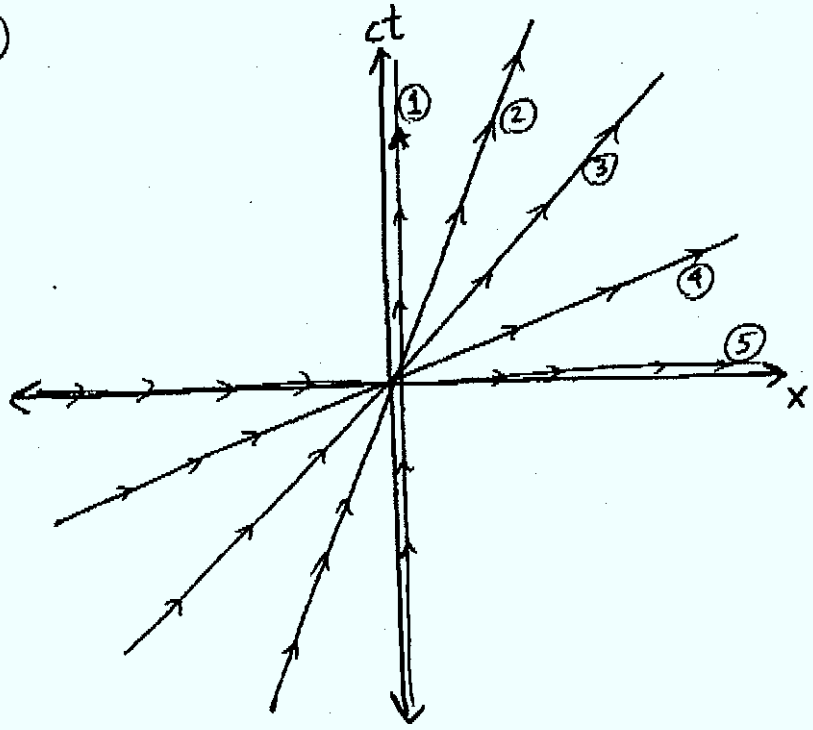
B) (5), (4)

C) (3), (4)

D) (1), (2)

E) (5), (2)

(2)



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A) (1), (4)

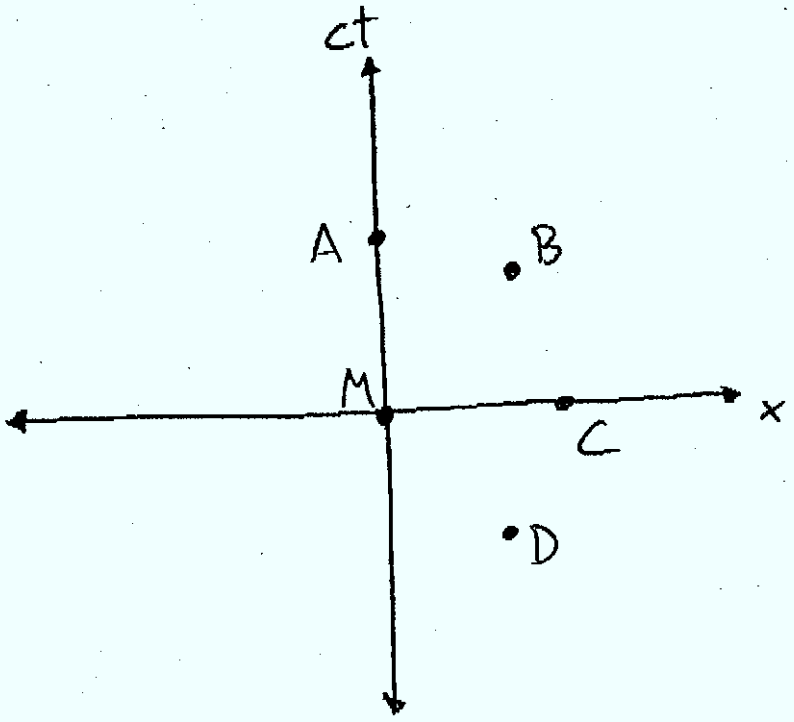
B) (5), (4)

C) (3), (4)

D) (1), (2)

E) (5), (2)

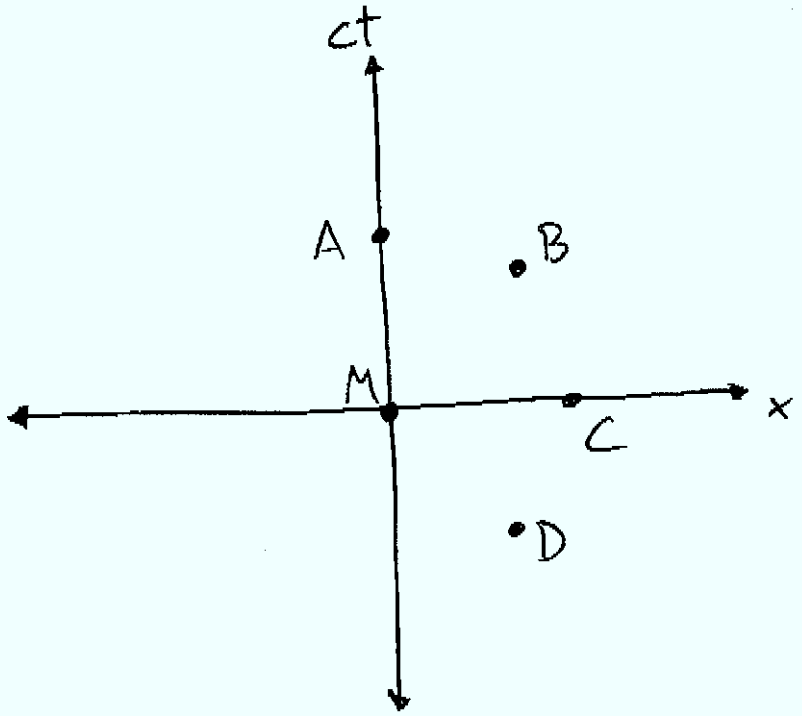
(2.5)



Which event is simultaneous with event M (for an observer using coordinates x, t)?

A) A
B) B
C) C
D) D
E) None of the above.

2.5)



Which event is simultaneous with event M (for an observer using coordinates x, t)?

A) A

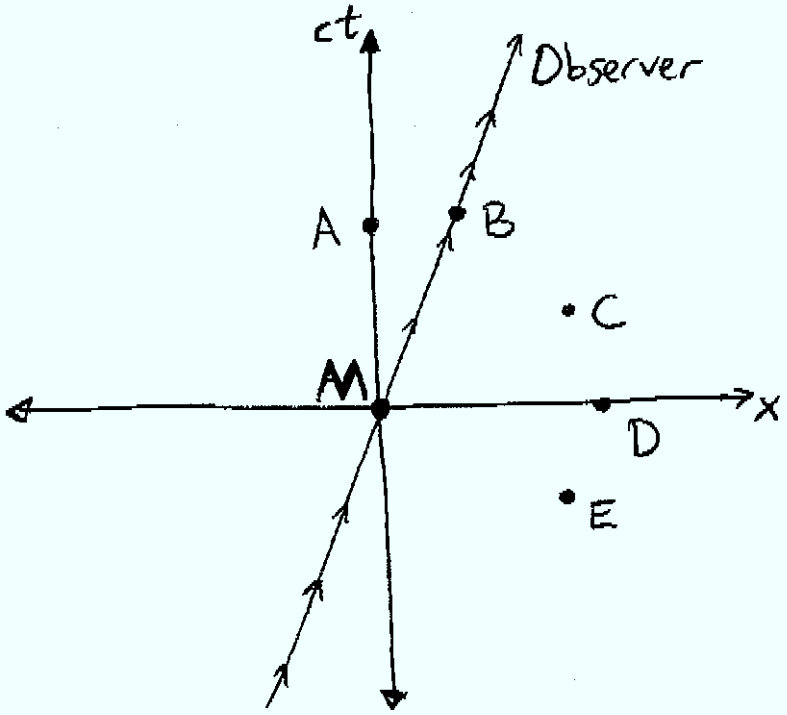
B) B

C) C

D) D

E) None of the above.

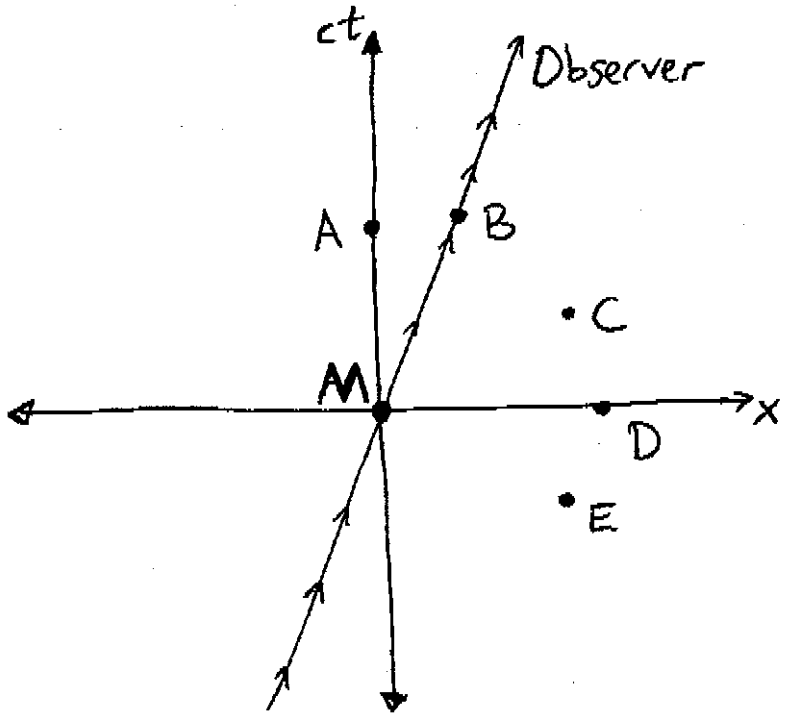
③



Which event does the observer measure to be simultaneous with the event M.

A) A B) B C) C D) D E) E

③



Which event does the observer measure to be simultaneous with the event M.

A) A B) B C) C D) D E) E