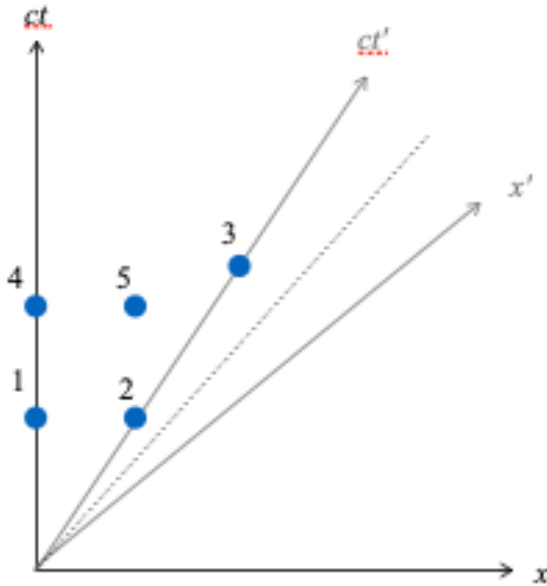
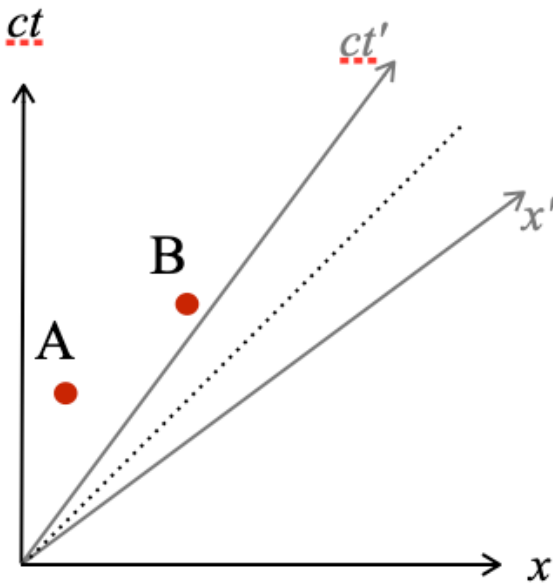


1 Events on Spacetime Diagrams

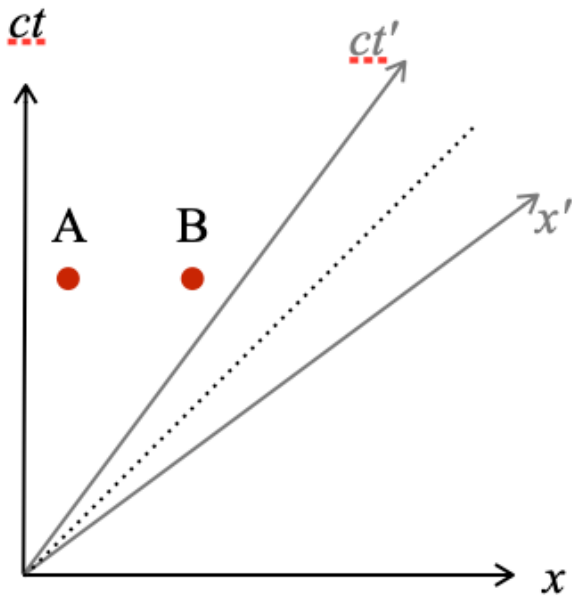
- (a) (a) Which pairs of events (if any) are **simultaneous** in the **unprimed frame**?
- (b) Which pairs of events (if any) are **simultaneous** in the **primed frame**?
- (c) Which pairs of events (if any) are **colocated** in the **unprimed frame**?
- (d) Which pairs of events (if any) are **colocated** in the **primed frame**?



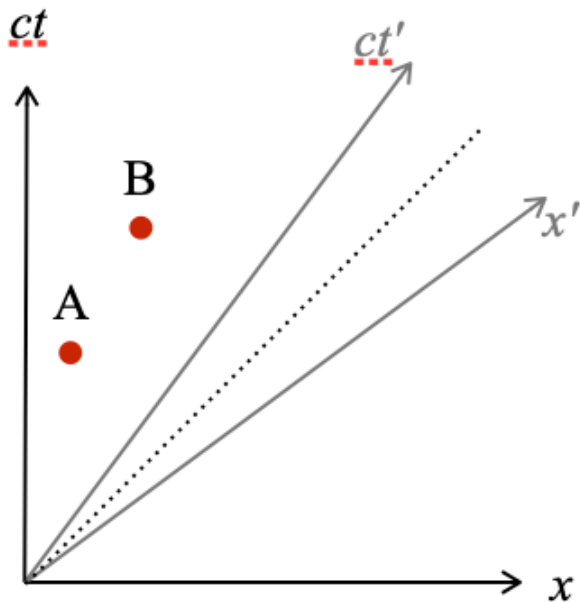
- (b) For each of the figures, answer the following questions:
 - (a) Which event occurs **first** in the **unprimed frame**?
 - (b) Which event occurs **first** in the **primed frame**?



i.



ii.



iii.