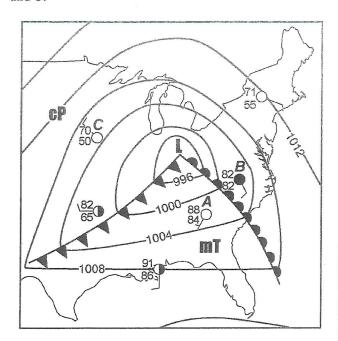
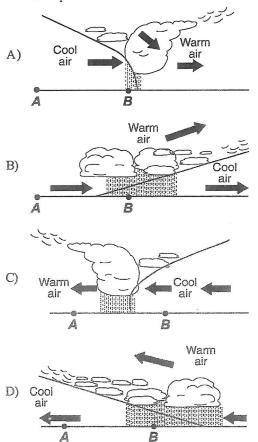
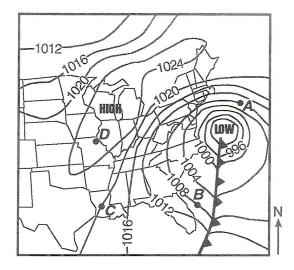
The weather map below shows a low-pressure system and some atmospheric conditions at weather stations A, B, and C.



Which cross section *best* represents the air masses, air movement, clouds, and precipitation occurring behind and ahead of the warm front located between stations A and B on the map?



- Weather along most fronts is usually cloudy with precipitation because the warm air along most fronts is usually
  - A) sinking and cooling, causing water to evaporate
  - B) sinking and warming, causing water to evaporate
  - C) rising and cooling, causing water vapor to condense
  - D) rising and warming, causing water vapor to condense
- 3) On the weather map below, points A, B, C, and D are locations on Earth's surface.



Which type of front extends southward from the center of the low?

A) cold

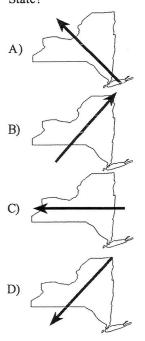
- C) warm
- B) stationary
- D) occluded
- 4) The weather map of North America below shows the location of a front and the air mass influencing its movement.



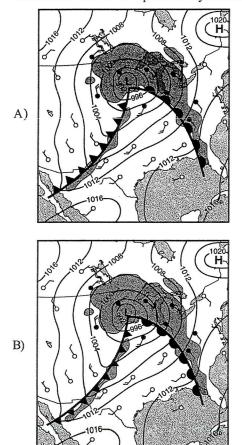
Which type of front and frontal movement is shown on the weather map?

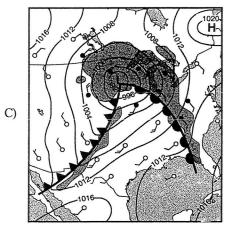
- A) warm front moving southeastward
- B) cold front moving northwestward
- C) warm front moving northwestward
- D) cold front moving southeastward

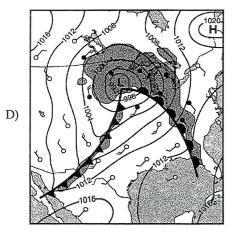
5) In which map does the arrow show the general direction that most low-pressure storm systems move across New York State?



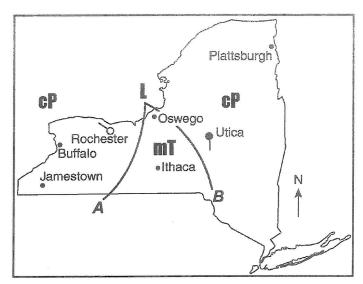
6) On which weather map below do the front symbols *best* represent the direction of movement of the cold front and warm front associated with the low-pressure system shown on the map?



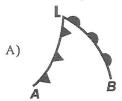


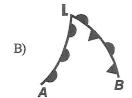


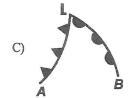
weather map below shows a typical low-pressure system and associated weather fronts labeled A and B. The L indicates the center 10 low-pressure system. A few New York State cities are shown. Symbols cP and mT represent different air masses. The wind direction at Utica and Rochester is shown on the station models.

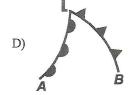


7) Which front symbols are drawn correctly, based on the air masses shown on the weather map?

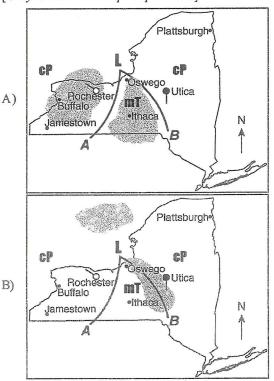


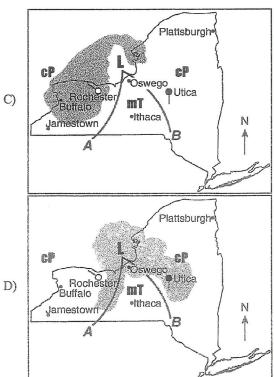




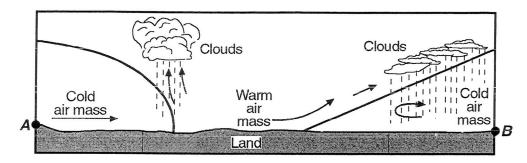


8) Which map shows the regions that are most likely experiencing the precipitation associated with the given weather system? [Gray areas indicate precipitation.]

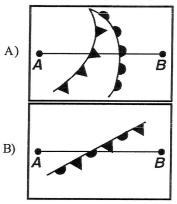


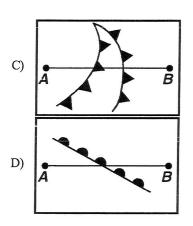


9) The diagram below represents a cross section of air masses and frontal surfaces along line AB. The dashed lines represent precipitation.

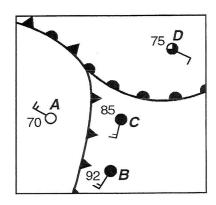


Which weather map best represents this frontal system?

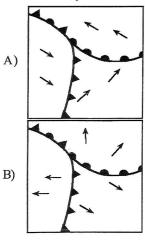


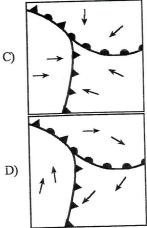


- 10) Which statement *best* explains why precipitation occurs at frontal boundaries?
  - A) Cold fronts move slower than warm fronts.
  - B) Cold fronts move faster than warm fronts.
  - C) Warm, moist air rises when it meets cold, dry air.
  - D) Warm, moist air sinks when it meets cold, dry air.
- 11) The weather map below shows a low-pressure system. Weather data is given for cities A through D.



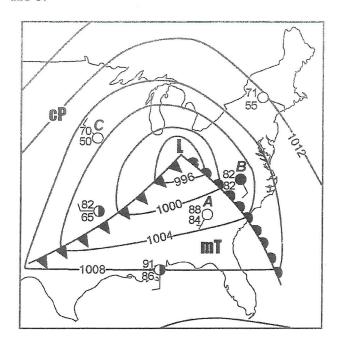
Which map correctly shows arrows indicating the probable surface wind pattern?



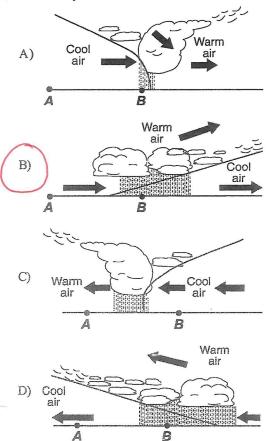




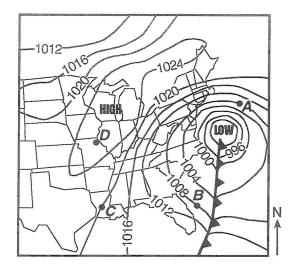
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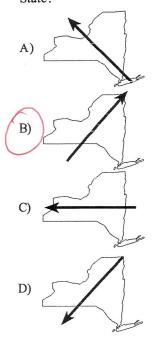
- C) warm
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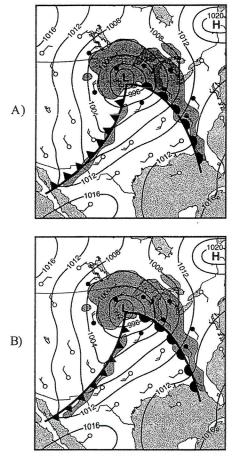
Which type of front and frontal movement is shown on the weather map?

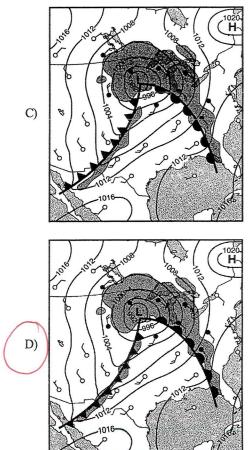
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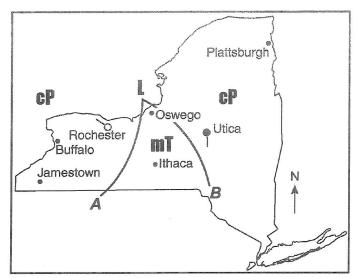


6) On which weather map below do the front symbols *best* represent the direction of movement of the cold front and warm front associated with the low-pressure system shown on the map?

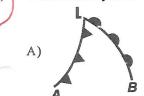




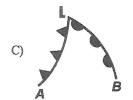
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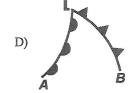


Which front symbols are drawn correctly, based on the air masses shown on the weather map?

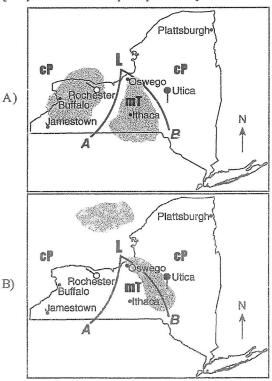


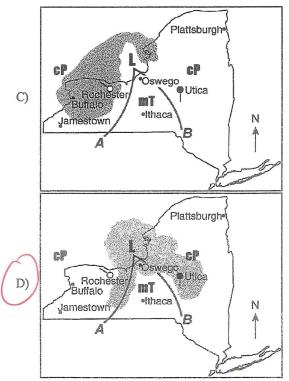




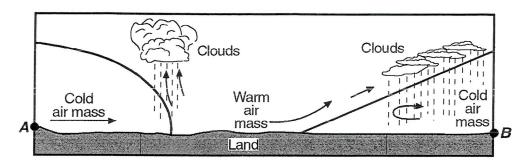


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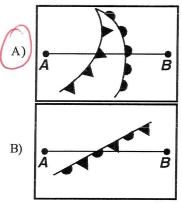


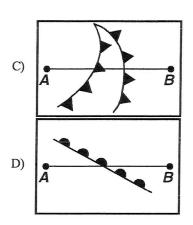


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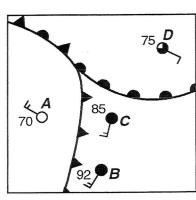


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