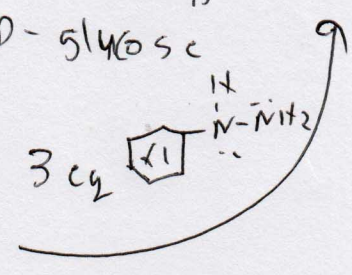
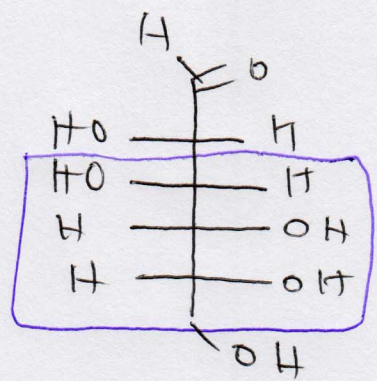
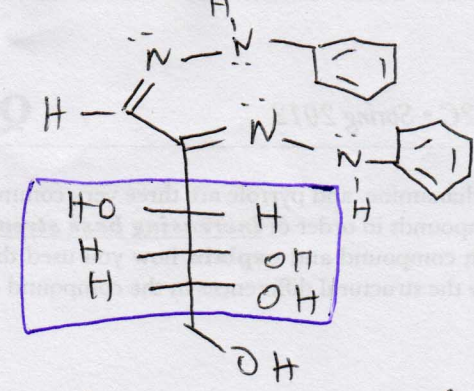
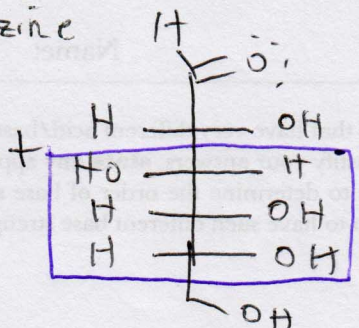
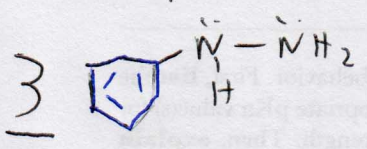


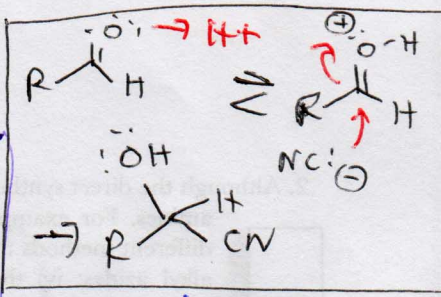
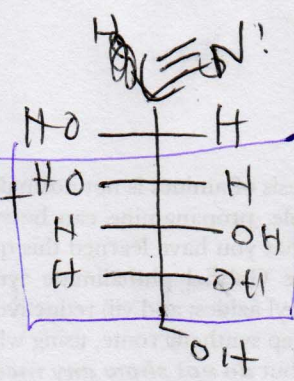
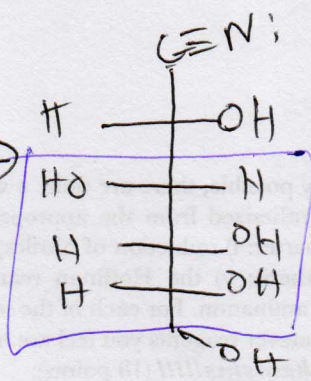
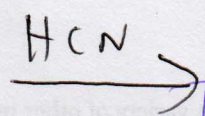
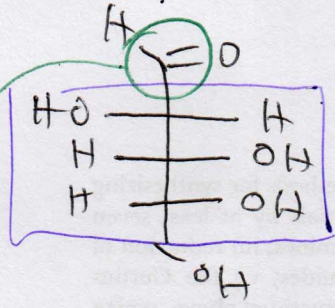
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phenyl hydrazine

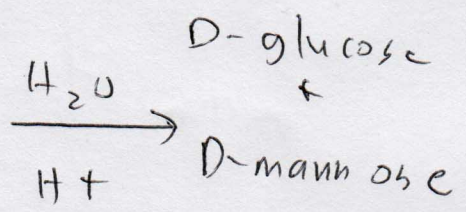
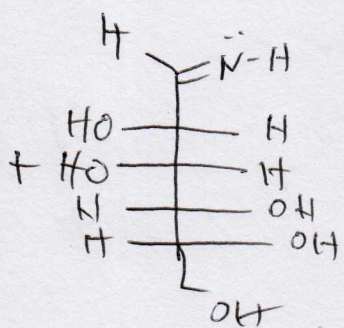
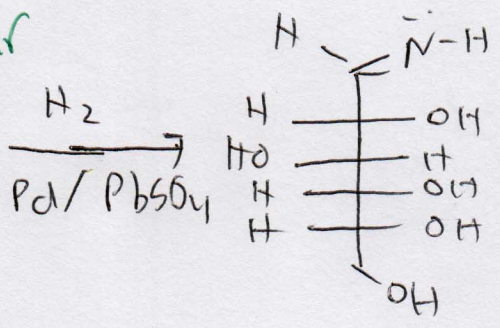


D-mannose

Modified Kiliani-Fischer chain extension



planar



The formation of osazones from glucose + mannose show the two sugars are epimers, since they both form the same derivative and that process involves the loss of one stereocenter. The synthesis of glucose + mannose from arabinose demonstrates the close structural similarity of the three sugars and that glucose and mannose are epimers.



