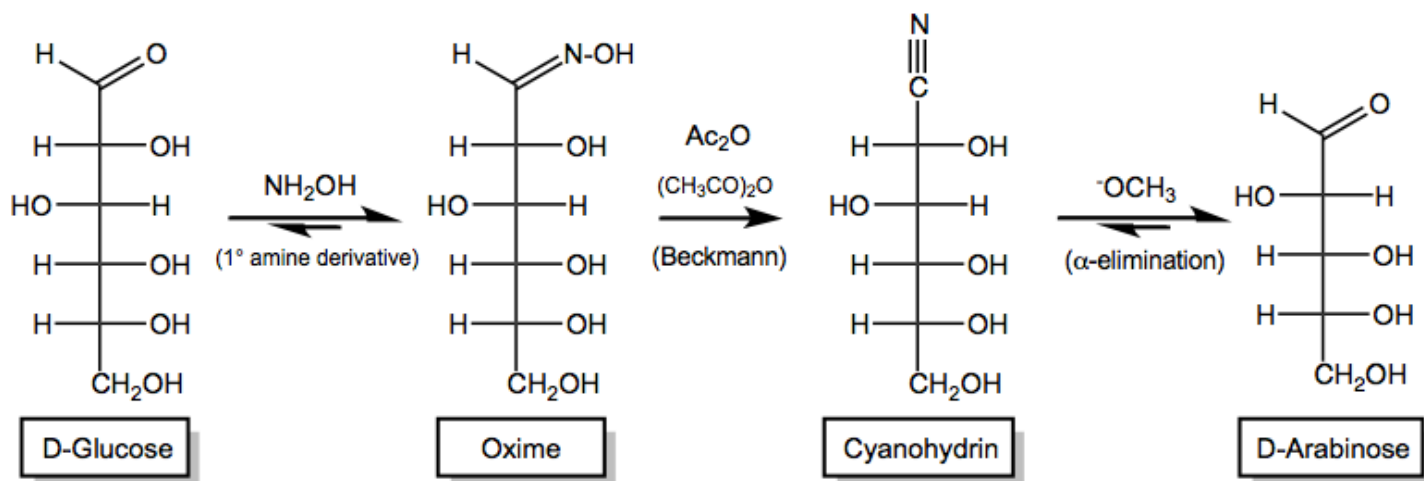


CONCEPT: MONOSACCHARIDES – WOHL DEGRADATION

Aldose aldehydes are susceptible to the same *nucleophilic addition* reactions that we learned in carbonyl chemistry

- Opposite to Kiliani-Fischer, aldehydes are transformed into _____ to be reversibly removed in base
 - Chain is shortened by ____-carbon every cycle. Unlike Kiliani-Fischer, results in the formation of a single epimer
 - The _____-stereocenter is lost in every cycle, so both C2 epimers of the original sugar produce the same product



EXAMPLE: Circle the aldohexoses that would produce the same Wohl Degradation product. If none would share a degradation product, write "N/A".

