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for farthest from the performance.

- Depth of acting area and the vertical height above it essential to the type of performance.
- Nearest and lowest part of the stage which must be within the unrestricted view of all spectators.
- Highest point in acting area which must be visible to the spectators farthest from the stage. Balcony fronts, or soffits, proscenium or false proscenium, pediment or border must not obstruct sightlines through these extreme points.

Vertical sightlines from tiers

The following is an approximate method of determining the slope of a tier. It does not replace

the more meticulous method described above, which can be applied to tiers as well as to main banks of seating.

First fix the eye position for the front row of seats (A) and the depth (L) to the eye position of the back row. Vertically above A find point X so that $AX = \frac{L}{10}$. Next draw a line from P (on stage) through X to cut the vertical through the eye position of the back row at Q.

The rake of the tier will then be parallel to AQ, but 1120 mm (44 in.) below (see the note above on the eye height of a seated person).

Note that the maximum slope with steps is 35° (G.L.C.)

3.6 Graphical method for finding balcony rake

3.7 The rake of the auditorium seats must be continuous over cross aisles. To start the rake again after the cross aisle, as shown here, results in bad sightlines for the seats immediately behind the aisle.