## Affine Base Cases (Global)

• M[0, i] = "score of best alignment between 0 characters of x and i characters of y that ends in a match" = - $\infty$  because no such alignment can exist.

- X[0, i] = "score of best alignment between 0 characters of x and i characters of y that ends in a gap in x" =  $gap_start + i \times gap_extend$  because this alignment looks like:
- M[i, 0] = M[0, i] and Y[0, i] and Y[i, 0] are computed using the same logic as X[i, 0] and X[0, i]