SKEWED_TO_LINEAR FUNCTION

➤ Requirements: straight line function that avoids division by 0, Helpful Votes column, number of pivots.

➤ Pivots: percentiles spread across the data using logspace.

➤ Y-values: percentiles from the first pivot to the last.

➤ X-values: number of helpful votes associated with each percentile.

➤ Piecewise function: Adjacent (x,y) points are connected via a straight line.

➤ Results: All x-values receive percentile ranking from corresponding y-values on graph.

➤ Transformation: Helpful votes scaled between 0 and 1 with skewness intact.

See full function and all relevant jupyter notebooks at https://github.com/coreyjwade/Helpful_Reviews.

PIECEWISE LINEAR TRANSFORMATION: 50 PIVOTS

y-values

```
percents= [   1.  9.79891606   17.82362289   25.1422425    31.81690291
   37.90426555  43.45600627   48.51925398   53.13699077   57.34841678
   61.18928294  64.69219452   67.88688785   70.8004828    73.45771297
   75.88113568  78.09132347   80.10703869   81.94539282   83.62199171
   85.15106808  86.54560229   87.81743261   88.97735565   90.03521804
   91.          91.87989161   92.68236229   93.41422425   94.08169029
   94.69042656  95.24560063   95.7519254    96.21369908   96.63484168
   97.01892829  97.36921945   97.68868879   97.98004828   98.2457713
   98.48811357  98.70913235   98.91070387   99.09453928   99.26219917
   99.41510681  99.55456023   99.68174326   99.79773557   99.9035218
  100.  ]
```

x-values

```
helpful_votes = [0.0, 0.0, 1.0, 1.0, 1.0, 1.0, 1.0, 2.0, 2.0, 2.0,
2.0, 3.0, 3.0, 4.0, 4.0, 4.0, 5.0, 6.0, 6.0, 7.0, 8.0, 9.0, 9.0, 10.0,
11.0, 12.0, 14.0, 15.0, 16.0, 18.0, 19.0, 21.0, 23.0, 25.0, 28.0,
30.0, 33.0, 36.0, 40.0, 44.0, 48.0, 54.0, 60.0, 67.0, 77.0, 89.0,
104.0, 126.0, 163.0, 243.0, 23311.0]
```