Sketch and label a normal distribution with a mean of 30 and standard deviation of 2. Show the Empirical Rule cut-offs.
percentiles a whole His
$x$-mean
stado.

$68 \%$ of data lies btn . 28:32.
$95 \%$ of data lies btu. $26 \times 3 \%$ $99.7 \%$ of date 24 d 36 .


|  |  |  | Table A Standerd Normal probabilities (conti |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $z$ | . 00 | . 01 | . 02 | . 03 | . 04 | . 05 |
| 0.0 | . 5000 | . 5040 | . 5080 | 5120 | . 5160 | . 5199 |
| 0.1 | . 5398 | . 5438 | . 5478 | . 5517 | 5557 | . 5596 |
| 0.2 | . 5793 | . 5832 | 5871 | . 5910 | 5948 | 5987 |
| 0.3 | . 6179 | . 6217 | 6255 | .6293 | 6331 | 6368 |
| 0.4 | . 6554 | . 6591 | . 6628 | . 6664 | . 6700 | . 6736 |
| 0.5 | . 6915 | . 6950 | . 6985 | . 7019 | . 7054 | . 7088 |
| 0.6 | . 7257 | . 7291 | . 7324 | . 7357 | . 7389 | . 7422 |
| 0.7 | . 7580 | . 7611 | . 7642 | . 7673 | .7704 | . 7734 |
| 0.8 | . 7881 | . 7910 | . 7939 | . 7967 | . 7995 | . 8023 |
| 0.9 | . 8159 | . 8186 | . 8212 | . 8238 | . 8264 | 8289 |
| 1.0 | 8413 | . 8438 | . 8461 | . 8485 | . 8508 | 8531 |
| 1.1 | . 8643 | . 8665 | . 8686 | . 8708 | . 8729 | . 8749 |
| 1.2 | 8849 | 8869 | . 8888 | . 8907 | . 8925 | . 8944 |
| 1.3 | . 9032 | . 9049 | . 9066 | . 9082 | . 9099 | . 9115 |
| 14 | 0102 | ann |  |  |  |  |

