

Regular Expressions

Do NOT write on this test. Record all answers on the bubble sheet. **Closed book. No notes.** Work strictly from memory. No time limit.

True or False: does the entire string match the regular expression?

- 1/1p. Does the empty string match the regular expression “`gz+rz`”?
- 2/1p. Does the string “`gn`” match the regular expression “`gn`”?
- 3/1p. Does the string “`pz`” match the regular expression “`pz`”?
- 4/1p. Does the string “`gp`” match the regular expression “`gp*|gk`”?
- 5/1p. Does the string “`ffwx`” match the regular expression “`f*wx`”?
- 6/1p. Does the string “`fpp`” match the regular expression “`fp*|d?`”?
- 7/1p. Does the string “`ptfa`” match the regular expression “`pt*(fa)?`”?
- 8/1p. Does the string “`dfydfy`” match the regular expression “`(d+fy)*`”?
- 9/1p. Does the string “`y`” match the regular expression “`pd+yw|y`”?
- 10/1p. Does the string “`hha`” match the regular expression “`h*af?`”?
- 11/1p. Does the string “`fpqgn`” match the regular expression “`fp?qg|n`”?
- 12/1p. Does the empty string match the regular expression “`a+px`”?
- 13/1p. Does the string “`ababndababnd`” match the regular expression “`(ab*|nd)+`”?
- 14/1p. Does the string “`gs`” match the regular expression “`sa?|gs`”?
- 15/1p. Does the string “`bzbzdtbzbzdt`” match the regular expression “`(qd)?|((bz)*|dt)+`”?
- 16/1p. Does the string “`bzbzsdw`” match the regular expression “`bz*|s*|dw`”?
- 17/1p. Does the string “`ndwttt`” match the regular expression “`(nd*t?|wt?)*`”?
- 18/1p. Does the string “`yxqxdhyxqxdh`” match the regular expression “`(yd?x(qx)?dh)*`”?
- 19/1p. Does the string “`babaa`” match the regular expression “`(zh)?|((ba)*?a)?`”?
- 20/1p. Does the string “`zafnb`” match the regular expression “`(zp+af|nb)*`”?

Total points 20.

QR2

Answer Key (points per line)

- | | |
|---------|-------|
| 1 (1). | false |
| 2 (1). | true |
| 3 (1). | true |
| 4 (1). | true |
| 5 (1). | true |
| 6 (1). | true |
| 7 (1). | true |
| 8 (1). | true |
| 9 (1). | true |
| 10 (1). | true |
| 11 (1). | false |
| 12 (1). | false |
| 13 (1). | true |
| 14 (1). | true |
| 15 (1). | true |
| 16 (1). | false |
| 17 (1). | false |
| 18 (1). | true |
| 19 (1). | true |
| 20 (1). | false |

Total points 20.