

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 string "ffn" match the regular expression "f+|n"?
- 2/1p. Does the empty string match the regular expression "yx"?
- 3/1p. Does the string "z" match the regular expression "q+|z"?
- 4/1p. Does the string "ks" match the regular expression "ks?|h"?
- 5/1p. Does the string "yyf" match the regular expression "y*f"?
- 6/1p. Does the string "cdt" match the regular expression "(cu)?|dt"?
- 7/1p. Does the string "ahh" match the regular expression "(qs|ah)*"?
- 8/1p. Does the string "rfaa" match the regular expression "ru?(fa)*"?
- 9/1p. Does the string "fdf" match the regular expression "(ry)*|((fd)+)*"?
- 10/1p. Does the string "n" match the regular expression "nh|n"?
- 11/1p. Does the empty string match the regular expression "(rk)*(ny)*"?
- 12/1p. Does the string "adadd" match the regular expression "(ad*|h|rh)*"?
- 13/1p. Does the string "xu" match the regular expression "nx?|xu"?
- 14/1p. Does the string "b" match the regular expression "(hs)*|s|b+|zp"?
- 15/1p. Does the string "byrdr" match the regular expression "(qf)?b(yr)?dr"?
- 16/1p. Does the string "a" match the regular expression "aa?|x+|ph"?
- 17/1p. Does the string "aapaaapa" match the regular expression "(a?p?|a*)+"?
- 18/1p. Does the string "cbcbgqc" match the regular expression "cb+g+|g*qc"?
- 19/1p. Does the string "hh" match the regular expression "h*|(sn)?xd"?
- 20/1p. Does the string "wpwp" match the regular expression "(zw)+wp"?

Total points 20.

QR2

Answer Key (points per line)

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

Total points 20.