

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 “`gw+x`”?
- 2/1p. Does the string “`u`” match the regular expression “`u*|tk`”?
- 3/1p. Does the string “`pw`” match the regular expression “`(ag)+|pw`”?
- 4/1p. Does the string “`hp`” match the regular expression “`hp`”?
- 5/1p. Does the string “`xxxx`” match the regular expression “`a|(xx)?`”?
- 6/1p. Does the string “`r`” match the regular expression “`r|z`”?
- 7/1p. Does the string “`ff`” match the regular expression “`(f*h)*`”?
- 8/1p. Does the string “`qwfy`” match the regular expression “`(qp)?wf|y`”?
- 9/1p. Does the string “`cktt`” match the regular expression “`c|(kt)*|g`”?
- 10/1p. Does the string “`khxn`” match the regular expression “`kh?xn`”?
- 11/1p. Does the empty string match the regular expression “`dw|zn`”?
- 12/1p. Does the string “`qqwsws`” match the regular expression “`q+|(ws)+|d`”?
- 13/1p. Does the string “`qt`” match the regular expression “`qt+|sk+n`”?
- 14/1p. Does the string “`hxxakfqfq`” match the regular expression “`hx?ak|(fq)?|xq`”?
- 15/1p. Does the string “`cudnbnb`” match the regular expression “`c?|ud|(nb)?`”?
- 16/1p. Does the string “`rrfskrr`” match the regular expression “`(r*|(fs)*kr)?`”?
- 17/1p. Does the string “`subsbs`” match the regular expression “`(cb|su)*|(bs)*`”?
- 18/1p. Does the string “`papakb`” match the regular expression “`(pa?kb|ya)*`”?
- 19/1p. Does the string “`bpbp`” match the regular expression “`s?|rk|yz*|(bp)*`”?
- 20/1p. Does the string “`hpcg`” match the regular expression “`(tg)+|hp*|cg`”?

Total points 20.

QR2

Answer Key (points per line)

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

Total points 20.