QR2

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 "`g*px`"?

2/1p.   Does the empty string match the regular expression "`(gr)+q`"?

3/1p.   Does the string "`dtty`" match the regular expression "`(dt)+y`"?

4/1p.   Does the string "`ks`" match the regular expression "`ks+|kq`"?

5/1p.   Does the empty string match the regular expression "`c?|(fr)?`"?

6/1p.   Does the empty string match the regular expression "`(bw?rn)*`"?

7/1p.   Does the string "`snnsnn`" match the regular expression "`(sn+|pp)*`"?

8/1p.   Does the string "`nu`" match the regular expression "`dc+|(nu)?`"?

9/1p.   Does the empty string match the regular expression "`(yk?)+`"?

10/1p.   Does the string "`ybqu`" match the regular expression "`((yb)?qu|r)?`"?

11/1p.   Does the string "`zth`" match the regular expression "`zt+hc*`"?

12/1p.   Does the empty string match the regular expression "`sx(cb)*yf`"?

13/1p.   Does the string "`qaqawz`" match the regular expression "`(qa)*wz(tg)?`"?

14/1p.   Does the string "`xpbb`" match the regular expression "`(xp+|f)?b+`"?

15/1p.   Does the empty string match the regular expression "`s*|a|nx`"?

16/1p.   Does the string "`cpyw`" match the regular expression "`(cp)+|(t+|yw)?`"?

17/1p.   Does the string "`pryfaqq`" match the regular expression "`pr+|yf(qf)?(aq)*`"?

18/1p.   Does the string "`bw`" match the regular expression "`(bw)?|(bk)?|(x?)?`"?

19/1p.   Does the string "`uusazz`" match the regular expression "`(u*|s*az)+`"?

20/1p.   Does the string "`tdtduqtdtduq`" match the regular expression "`(td?|uq)+|q?`"?

Total points 20.

QR2

Answer Key (points per line)

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

Total points 20.