

## Regular Expressions

Okay to write on this test. Mark all answers clearly. **Closed book. No notes.** Work strictly from memory. **No calculators.**

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

- 1/1p. Does the string “cbb**sb**” match the regular expression “(cb)\***sb**”?
- 2/1p. Does the string “**zp**” match the regular expression “**t?zp**”?
- 3/1p. Does the string “**yr**” match the regular expression “**zf+yr**”?
- 4/1p. Does the empty string match the regular expression “**t\*gt**”?
- 5/1p. Does the string “**sasany**” match the regular expression “**sa+ny**”?
- 6/1p. Does the string “**kbbpykbbpy**” match the regular expression “((**kb**)+**py**)**+**”?
- 7/1p. Does the string “**nn**” match the regular expression “**w\*|n?**”?
- 8/1p. Does the string “**yтта**” match the regular expression “**yt\*a**”?
- 9/1p. Does the string “**bbass**” match the regular expression “**b+(as)\***”?
- 10/1p. Does the string “**bb**” match the regular expression “**b?|wa**”?
- 11/1p. Does the string “**ksksxppp**” match the regular expression “((**ks**)\*|**xp**)**+**”?
- 12/1p. Does the string “**axxp**” match the regular expression “**a+|x+p?**”?
- 13/1p. Does the string “**yxcss**” match the regular expression “(**yx**)?**(cs)+s**”?
- 14/1p. Does the string “**ggggxuu**” match the regular expression “((**gg**)+|**xu**)**?**”?
- 15/1p. Does the string “**rbbshc**” match the regular expression “**rb\*|(sh)\*c\***”?
- 16/1p. Does the string “**twx**” match the regular expression “(**t\*|(wx)+|un**)**\***”?
- 17/1p. Does the string “**kp**” match the regular expression “**ux|kp?|n?**”?
- 18/1p. Does the string “**gwnpnp**” match the regular expression “**b?|(gw)+(np)+**”?
- 19/1p. Does the string “**qddps**” match the regular expression “((**q+d**)\***ps**)**+**”?
- 20/1p. Does the string “**ssf**” match the regular expression “**s+sf|q\***”?
- 21/1p. Does the empty string match the regular expression “**wf?|td|(xq)+|(az)?**”?
- 22/1p. Does the string “**krcaa**” match the regular expression “**k?|r\*|ca\*|az?**”?
- 23/1p. Does the string “**ybcg**” match the regular expression “**cg+|y(bc|g\*)+**”?
- 24/1p. Does the string “**cwxcwxy**” match the regular expression “(**c\*|wx**)\***ch\*by**”?
- 25/1p. Does the string “**bqzpggar**” match the regular expression “(**t+|b**)\*|**qz|pg?|ar**”?
- 26/1p. Does the string “**qg**” match the regular expression “(**qg|y\*u?**)**?**”?
- 27/1p. Does the string “**uyuynsquyuynsq**” match the regular expression “(((**uy**)?**n|(sg)\***)\***q\***)**?**”?
- 28/1p. Does the string “**ucc**” match the regular expression “**uc\*|qa(h?|(dc)+)?f**”?
- 29/1p. Does the string “**kpahas**” match the regular expression “**s?tz|kp(ah)+as**”?
- 30/1p. Does the string “**w**” match the regular expression “**t\*s|du|wp\***”?

Total points 30.

**Answer Key** (points per line)

1 (1).	false
2 (1).	true
3 (1).	false
4 (1).	false
5 (1).	false
6 (1).	false
7 (1).	false
8 (1).	true
9 (1).	false
10 (1).	false
11 (1).	true
12 (1).	false
13 (1).	true
14 (1).	false
15 (1).	false
16 (1).	true
17 (1).	true
18 (1).	true
19 (1).	true
20 (1).	true
21 (1).	true
22 (1).	false
23 (1).	true
24 (1).	false
25 (1).	false
26 (1).	true
27 (1).	false
28 (1).	true
29 (1).	true
30 (1).	true

Total points 30.