

RPN Worksheet - Answer Key

Questions

1. **3**
2. $5\ 3\ +\ 4\ *\ 6\ -$
3. $(a\ +\ b)\ -\ (c\ *\ d\ /\ e)$
4. **17**
5. $a\ b\ +\ c\ *\ d\ -\ e\ f\ g\ *\ +\ /\$
6. $(x\ +\ y\ *\ z)\ /\ (w\ -\ v\ *\ u)\ +\ t$
7. **18**
8. $a\ 2\ ^\wedge\ b\ 2\ ^\wedge\ +\ \text{sqrt}\ \text{theta}\ \text{cos}\ *$

Challenges

1. **A:** $5\ -\ (4\ -\ (3\ -\ (2\ -\ 1)))$ **B:** $5\ -\ 4\ +\ 3\ -\ 2\ +\ 1$
2. $n - 1$ operators
3. **120** equivalent valid RPN expressions
4. **500**
5. Approximately **0.739085**