

Convert the following into prefix notation:

1. $(A + B) / CD + E$
2. $A + B / (C + D)$
3. $AB - BA$
4. $A^2 + 3B$
5. $AB / C^2 D$
6. $(A - B)(C / D)$

Convert the following into postfix notation:

7. $AB / (C + D)$
8. $A^2 + B - C$
9. $A^2 * B^2 * C^2$
10. $B^2 - 4AC$
11. $AB / C^2 * D$
12. $(A - B)(C / D)$

Evaluate the following expressions with the given values:

13. (postfix) $a^2 b c * d / -$ where $a = 8, b = 2, c = 3$, and $d = 6$
13. (postfix) $ab + d / ab * -$ where $a = 12, b = 14$, and $d = 13$
14. (prefix) $/ * 2 b + b * b^a a^2$ where $a = 1$ and $b = 9999$
15. (prefix) $+ A / - / B C D E$ where $A = 11, B = 20, C = 10, D = 4$, and $E = 2$