

RPN Quiz Review

Name: _____ Date: _____

Solve the following problems using techniques learned in class. Use degrees for trigonometric functions.

Questions

1. Evaluate an RPN expression

Evaluate:

$$6 \ 2 \ / \ 3 \ + \ 4 \ *$$

Answer: _____

2. Convert to RPN

Convert the algebraic expression $(7 - 2) \times 3 + 8$ to RPN notation.

Answer: _____

3. Convert to algebraic notation

Convert $a \ b \ - \ c \ d \ + \ *$ to standard algebraic notation.

Answer: _____

4. Evaluate an RPN expression

Evaluate:

$$9 \ 4 \ - \ 5 \ 2 \ * \ +$$

Answer: _____

5. Convert to RPN

Convert the algebraic expression $(p + q) \times (r - s)$ to RPN notation.

Answer: _____

6. Convert to algebraic notation

Convert $x \ y \ * \ z \ w \ - \ /$ to standard algebraic notation.

Answer: _____

7. Evaluate an RPN expression

Evaluate:

$$30 \ \sin \ 2 \ * \ 9 \ 3 \ / \ 2 \ ^ \ -$$

Answer: _____

8. Convert to RPN

Convert the algebraic expression $12 / (4 + 2) - 1$ to RPN notation.

Answer: _____

9. Convert to algebraic notation

Convert `15 3 / 4 +` to standard algebraic notation. (Do not evaluate.)

Answer: _____

10. Evaluate an RPN expression

Evaluate:

`18 3 / 4 - 2 ^`

Answer: _____

11. Convert to RPN

Convert the algebraic expression $\sqrt{m^2 + n^2}$ to RPN notation.

Answer: _____

12. Convert to algebraic notation

Convert `p q r * + s t - /` to standard algebraic notation.

Answer: _____

13. Evaluate an RPN expression

Evaluate:

`60 cos 4 * 25 sqrt +`

Answer: _____

14. Convert to RPN

Convert the algebraic expression $(9 + 3) / (2 \times 2)$ to RPN notation.

Answer: _____

15. Convert to algebraic notation

Convert `a b c + * d -` to standard algebraic notation.

Answer: _____

16. Evaluate an RPN expression

Evaluate:

`7 3 + 2 * 4 -`

Answer: _____

17. Convert to RPN

Convert the algebraic expression $(u - v)(w + z) / y$ to RPN notation.

Answer: _____

18. Evaluate an RPN expression

Evaluate:

8 3 2 * - 2 /

Answer: _____

19. Convert to RPN

Convert the algebraic expression $\frac{a+b}{c-d} \times e$ to RPN notation.

Answer: _____

20. Convert to algebraic notation

Convert $m n + p / q r * -$ to standard algebraic notation.

Answer: _____