

## RPN (Reverse Polish Notation) Worksheet

**Problem: Evaluate the following RPN expression**  $7\ 2\ +\ 3\ 4\ *\ 2\ /\ -$

**Answer:** \_\_\_\_\_

**Problem: Convert to RPN** Convert the algebraic expression  $(5 + 3) \times 4 - 6$  to RPN notation.

**Answer:** \_\_\_\_\_

**Problem: Convert to algebraic notation** Convert the RPN expression  $a\ b\ +\ c\ d\ *\ e\ /\ -$  to standard algebraic notation.

**Answer:** \_\_\_\_\_

**Problem: Evaluate the following RPN expression**  $8\ 3\ 2\ *\ +\ 5\ 4\ -\ 6\ *\ 2\ /\ +$

**Answer:** \_\_\_\_\_

**Problem: Convert to RPN** Convert the algebraic expression  $((a + b) \times c - d) / (e + f \times g)$  to RPN notation.

**Answer:** \_\_\_\_\_

**Problem: Convert to algebraic notation** Convert the RPN expression  $x\ y\ z\ *\ +\ w\ v\ u\ *\ -\ /\ t\ +$  to standard algebraic notation.

**Answer:** \_\_\_\_\_

**Problem: Evaluate the following RPN expression (use degrees for trig functions)**  $90\ \sin\ 4\ \text{sqrt}\ *\ 16\ 4\ /\ 2\ ^\ +$

**Answer:** \_\_\_\_\_

**Problem: Convert to RPN** Convert the algebraic expression  $\sqrt{a^2 + b^2} \cdot \cos \theta$  to RPN notation.

**Answer:** \_\_\_\_\_