

Homework 1: Prefix Arithmetic Drills

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Problem 1. Reduce the following arithmetic expressions. Show your work.

- a. $(+34)$
- b. $(+345)$
- c. $(*222)$
- d. $(/222)$
- e. $(/22)$
- f. $(+(*22)4)$
- g. $(/3(+22)6)$
- h. $(*9(/8(+22)4)9)$
- i. $(*30(+22)(/3(-64)5))$
- j. $(/(*9(/8(+22)4)9)(-5(*5(/6(+2245)55)))(+(*22)4))$

Problem 2. Convert each of the expressions in problem (1) to an equivalent infix expression.

Problem 3. Convert each of the following infix expressions into the functional form of problem (1).

- a $3 \times 5 - 4$
- b $3 \times (5 - 4)$
- c $a \times b + c - (a \div n)$
- d $\frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$ (Let *sqr*t refer to the square root function.)