Expression Worksheet

Convert the following infix expressions to prefix and postfix form, and draw the expression tree for each. Assume the normal Java operators and precedence rules.

a) **a * b + c**

PREFIX: POSTFIX:

EXPRESSION TREE:

b) **a * b - c / d + 3**

PREFIX: POSTFIX:

EXPRESSION TREE:

c) **a + b – c * d**

PREFIX: POSTFIX:

EXPRESSION TREE:

d) Given a=2, b=3, c = 8, and d=4, postorder evaluate the expression trees in b) and c).