

## Sheet (1)

1. Write the following arithmetic expressions in Fortran form:

$$(a) \quad x = \frac{a^2 + b^2 + a \times b}{1 + \frac{a}{a+b}}$$

$$(c) \quad p = 8(\sqrt[3]{a^2} + \sqrt{a^2})$$

$$(b) \quad V = (a - 2b)^3 \cdot (3a + b)^2$$

$$(d) \quad z = a^{b^2} + b^{a^2}$$

2. Determine the results of the following Fortran expressions:

$$A = 0$$

$$B = 10$$

$$C = 0.5$$

$$(a) \quad X = A * C + (B * C) ** 2 - \log_{(10)} 10$$

$$(b) \quad L = B * 2 * 3 / A ** 2 - 1$$

$$(c) \quad A = A * C * (10 / B)$$

$$(d) \quad D = (A + B) * C / B * C$$

$$(e) \quad F = A + B * C / B * C$$

3. State if these variables names are corrected or not, and for correct ones state the type, and for incorrect suggest a correction and type:

BE

XY800ABC

Y

A B

23A

A\*A

M-N

Find the value of these problems:

- $3*2+1$
- $3+1*2$
- $2**2-4*25+3/2$
- $2.0/1$
- $3/2$
- $3.0/2$
- $15/3*2-21/7/3+1$
- $28/2**2+5$
- $3.0/2.0$
- $3*3-27/3$