Tenth of Ramadan City	Programming for Civil Eng.
Higher Technological Institute	Dr./ Ahmed Azmy
Civil Engineering Department	CS 199

Sheet (1)

1. Write the following arithmetic expressions in Fortran form:

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

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

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

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

2. Determine the results of the following Fortran expressions:

$$A = 0$$

$$B = 10$$

$$C = 0.5$$

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

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

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

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

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

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

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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