

K201-Quiz 2A
9/23/81

(2 pts) 1. Indicate and explain errors (if any) in the following FORTRAN arithmetic statement:

```
RAD.DN=(PET-PAUL)**2/((RAD*DN-1.)*5)-INPUT
```

Annotations: NOT ALLOWED (under RAD.DN), WRONG MODE (under **), OR TOO MUCH (under -INPUT)

(4 pts) 2. Translate the following mathematical expression into an equivalent FORTRAN expression:

$$\frac{(27KAPU-U)^2 + 5.5B}{A+THETA} - R^{2K}$$

Annotations: WRONG MODE (under **), ADD. PARENTHESES NEEDED (under the fraction), * (under the exponent 2K)

$$((27.*AKAPU-U)**2+5.5*B)/(A+THETA)-R**(2*K)$$

(6 pts) 3. Evaluate the following sequence of FORTRAN statements, given A=3.:

B=(A-1.):**2-2. (3.-1.)²-2. = 2.
 C=((A+B)*(A-B))/2. (3.+2.)*(3.-2.)/2. = 25.
 KORS=(A+2.*C)/(C-2.*B)/2. (3.+6.)/(25-4.)/2. = ~~2~~ -2

(8 pts) 4. Consider the following card layout:

Card columns	Description	Form	Variable name
4-11	Item#	Integer	_____
31-40	Department	Alphanumeric	_____
41-45	Quantity	Integer	_____
48-53	Price	XXXX,XX	_____

(Decimal point not punched in the "Price" data field)

Mode!
3 variables!
Mode!
Mode!

Define variable names and write FORTRAN statements necessary to read this card and enter above data into memory registers associated with variable names.

```
READ(5,u)I,A1,A2,A3,I,D
4 FORMAT(3X,I8,19X,2A4,A2,I5,2X,F6.2)
```