

4. (9 points) Write an equivalent FORTRAN expression for each of the following algebraic expressions:

a) $\sqrt{2x^2 + 3}$

b) $\frac{3X + 4Y}{2A}$

c) $(A + 3B)^{1/3}$

5. (25 points) Write a complete FORTRAN program for the following flow chart.

The input cards have the following layout:

<u>Card</u> <u>Columns</u>	<u>Description</u>	<u>Variable Name</u>
1 - 5	Customer Number	ICN
6 - 25	Name	(Assign your own)
31 - 34	Quantity ordered	QTY

The output report headings at the top of the page should be:

<u>Print</u> <u>Positions</u>	<u>Heading</u>
1 - 8	CUSTOMER
16 - 19	NAME
30 - 37	QUANTITY
41 - 46	AMOUNT