BAD FORM IN MATHEMATICS.

Form is important in mathematics to prevent misunderstandings. These mistakes will have academic consequences either in the communications mark or in the question itself.

TYPES OF ERROR	EXAMPLE
1) Misuse of equal signs	
a) Omission	y = 2 (5) + 7 - 3 10 + 7 - 3 14
b) Extra 'equal' signs	2x + 7 = x - 5 = $2x = x - 12$
c) Equal signs not lined up	$\begin{array}{l} x = 2x + 9 \\ = x + 9 \end{array}$
2) Misuse of Brackets	(3x + 2)(5x - 1
a) Omission	
b) Length of line bracket	$\frac{x-2 +}{2x}$ 3x instead of $\frac{x-2 + 3x}{2x}$
or as in quadratic formula	
	$\sqrt{b^2 - 4ac}$

$$x = -b \pm \frac{\sqrt{b^2 - 4ac}}{2a}$$
 instead of
$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

- 3) Fractions not reduced to lowest terms
- <u>12</u> instead of <u>2</u> 18 3

3. Algebraic expressions not simplified

3) <u>Radical sign</u> a) Too long factor and collect like terms as necessary

 $\sqrt{a+4cd-x}$ instead of $\sqrt{a+4cd-x}$



$$3\sqrt{2}$$
 or $\sqrt{2}$ instead of $\sqrt[3]{2}$

5) Radicals not simplified

b) Too short

c) Meaning

6) Radicals not rationalized

 $\frac{2}{\sqrt{3}}$ instead of $\frac{2\sqrt{3}}{3}$

7) Ordered pairs improperly recorded 2,3 or (23) instead of (2,3)

8) Statements not complete, omitted completely, or units left out

9) Axes improperly labelled or left out altogether

10) Improper notation

Sin = $\frac{3}{4}$ instead of sin x = $\frac{3}{4}$ sin x ² instead of sin²x .004 instead of 0.004

.004 instead of 0.004

 $\{\varphi\}$ instead of $\{\ \}$ or φ

(x , y) instead of (x₁, y₁)

(-3 <x <3) instead of $\{x \mid$ -3 < x < 3 $\}$

AB instead of AB

If any of these errors are unclear , or you have questions...Discuss them with your Math Teacher