

Name _____

Algebraic Atrocities

Statement	True or False	Correction
1. $\frac{3}{a} + \frac{3}{b} = \frac{3}{a+b}$	_____	_____
2. $\frac{a+b}{c+d} = \frac{a}{c} + \frac{b}{d}$	_____	_____
3. $\frac{a+b}{c} = \frac{a}{c} + \frac{b}{c}$	_____	_____
4. $\frac{a}{b+c} = \frac{a}{b} + \frac{a}{c}$	_____	_____
5. $\frac{10t+u}{10u+v} = \frac{t}{v}$	_____	_____
6. $\frac{a}{b} = \frac{a^2}{b^2}$	_____	_____
7. $\frac{a+b}{b} = a$	_____	_____
8. $\frac{1}{a+b} + (a+b)^2 = a+b$	_____	_____
9. $2a^{-1} = \frac{-1}{2a}$	_____	_____
10. $a^{-2} = -a^2$	_____	_____
11. $(a-b)^2 = a^2 - b^2$	_____	_____
12. $(a+b)^2 = a^2 + b^2$	_____	_____

13. $(a+b)^3 = a^3 + b^3$ _____
14. $\sqrt{a^2} = a$ _____
15. $\sqrt{a^2 + b^2} = a + b$ _____
16. $\sqrt{a^2 - b^2} = a - b$ _____
17. $\sqrt{a+b} = \sqrt{a} + \sqrt{b}$ _____
18. $\frac{1}{3}(-6)^3 = -2^3$ _____
19. $a^{\frac{2}{3}} = \frac{a^2}{a^3}$ _____
20. $\frac{\sin a}{a} = \sin(1)$ _____
21. $\frac{\sin 2a}{a} = \sin(2)$ _____
22. $\sin(2A) = 2\sin(A)$ _____
23. $\sin(A+B) = \sin(A) + \sin(B)$ _____
24. $\cos(2A) = 2\cos(A)$ _____
25. $\cos(A+B) = \cos(A) + \cos(B)$ _____
26. $\log(a+b) = \log(a) + \log(b)$ _____
27. If $a+b=0$, then either $a=0$ or $b=0$ _____
28. If $x(x-2)=24$, then either $x=24$ or $x-2=24$ _____
29. $a(bc) = (ab)(ac)$ _____
30. If $\log(a) = b$, then $a = \frac{b}{\log}$ _____

31. If $\sin(a) = b$, then $a = \frac{b}{\sin}$

32. If $\cos(a) = b$, then $a = \frac{b}{\cos}$

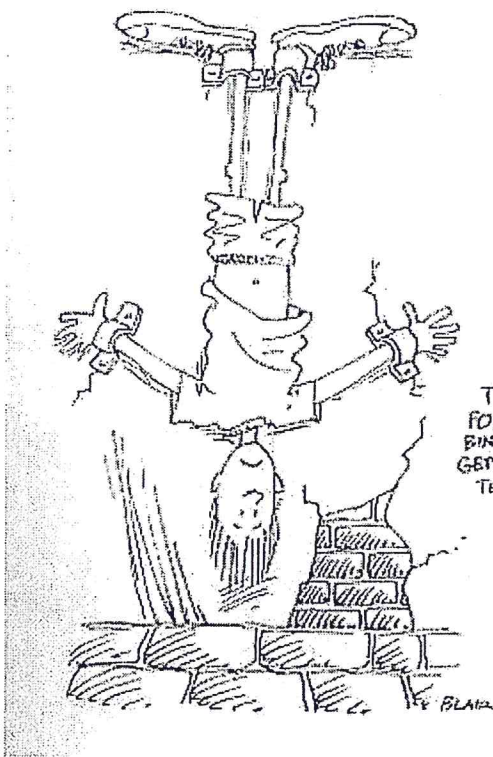
33. If $\tan(a) = b$, then $a = \frac{b}{\tan}$

34. $\text{Sin}^{-1}(x) = \frac{1}{\text{csc}(x)}$

35. $\text{Tan}^{-1}(x) = \frac{1}{\text{cot}(x)}$

36. $\text{Cos}^{-1}(x) = \frac{1}{\text{sec}(x)}$

37. $\text{Sin}^{-1}(x) = \frac{1}{\sin(x)}$



THE PENALTY
FOR SQUARING A
BINOMIAL AND FOR-
GETTING THE MIDDLE
TERM

