A TEN DAY SYLLABUS FOR PRECALCULUS

DAY 1: Teach them that $\frac{a+b}{c}$ is $\frac{a}{c} + \frac{b}{c}$

DAY 2: Teach them that $\frac{a}{b+c}$ is **NOT** $\frac{a}{b} + \frac{a}{c}$

DAY 3: Teach them that $\frac{x}{\ln x}$ is **NOT** $\frac{1}{\ln x}$

DAY 4: Teach them that you can't solve $(\sin(kx))=1$ by saying $x=\frac{1}{\sin(k)}$

DAY 5: Remind them that $\frac{a}{b+c}$ is **NOT** $\frac{a}{b} + \frac{a}{c}$

DAY 6: Show them a movie of a student sitting in a field, writing $(a+b)^2 = a^2 + b^2$ and then getting HIT BY A TRAIN!

DAY 7: Remind them that $\frac{a}{b+c}$ is **NOT** $\frac{a}{b} + \frac{a}{c}$

DAY 8: Teach them that if the domain of the function f is the reals, the graph of y = f(x) is NOT a blank pair of axes, that perhaps they should adjust the "window"

DAY 9: Remind them that $\frac{x}{y+z}$ is **NOT** $\frac{x}{y} + \frac{x}{z}$

DAY 10: Group work: Bring a trout to class. Have them solve (sin(kx))=1. If they get $x = \frac{1}{sin(k)}$ hit them with the trout. Make it a big trout.

Created by Doug Shaw. Printed in the Australian Mathematics Teacher vol 58 no.4(2002)(page34)