WILL IT EVER STOP HURTING?

$$\frac{d\text{Pain}}{dt} = \left(-k_1 \text{Pain} + \text{\textit{(figure)}}\right)\left(\frac{1}{1 + e^{-(t-k_2)/d}}\right)$$

$k_1 = ?$ $k_2 = ?$ \text{(figure)} = How much she's still in my life

PLEASE LET d ONLY BE A FEW DAYS
... OR WEEKS.

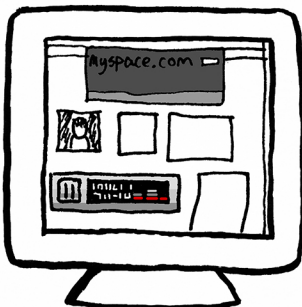I GUESS THERE'S SOME KIND OF A CUTOFF AFTER YEARS, WHERE IT STOPS MATTERING AND WE CAN BE FRIENDS. DO I WANT THAT?

IS k_1 POSITIVE? IS k_2 LARGE?

WILL I EVER STOP FEELING LIKE THIS?

You laugh to keep from crying, you do math to keep from crying ...

(braille text)

OH MAN, YOU AND EVERYONE IN EARSHOT ARE GONNA <u>LOVE</u> THE FIRST FIVE SECONDS OF THIS SONG!

myspace.com

It's like they got together and said 'what do we miss most from the internet in 1998? That's right, embedded MIDI!'

MISS LENHART COULDN'T BE HERE TODAY, SO SHE ASKED ME TO SUBSTITUTE.

MATH
Mr. Munroe

I'VE PUT OUT YOUR TESTS. PLEASE GET STARTED.
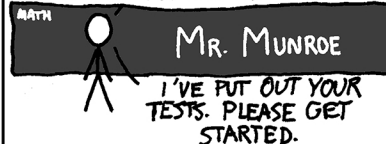
MR. MUNROE, MISS LENHART NEVER TAUGHT US THIS.

THAT'S BECAUSE MISS LENHART DOESN'T UNDERSTAND HOW IMPORTANT CERTAIN KINDS OF MATH ARE.

THIS MATERIAL IS MORE VITAL THAN ANYTHING YOU'VE EVER LEARNED

BUT THIS JUST LOOKS --

BUT --

NO BUTS.

THIS IS A MATTER OF LIFE AND DEATH.

Name: _____

1. The velociraptor spots you 40 meters away and attacks, accelerating at 4 m/s^2 up to its top speed of 25 m/s. When it spots you, you begin to flee, quickly reaching your top speed of 6 m/s. How far can you get before you're caught and devoured?

2. You are at the center of a 20m equilateral triangle with a raptor at each corner. The top raptor has a wounded leg and is limited to a top speed of 10 m/s.
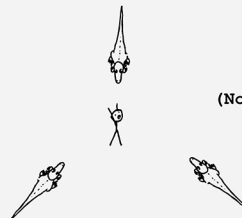
   (Not to scale)

   The raptors will run toward you. At what angle should you run to maximize the time you stay alive?

3. Raptors can open doors, but they are slowed by them. Using the floor plan on the next page, plot a route through the building, assuming raptors take 5 minutes to open the first door and halve the time for each subsequent door. Remember, raptors run at 10 m/s and they do not know fear.

YOU THINK THIS IS FUNNY?