

What month is your birthday?

What are the first 2 digits of your address?

What are the last 2 digits of your zip code?

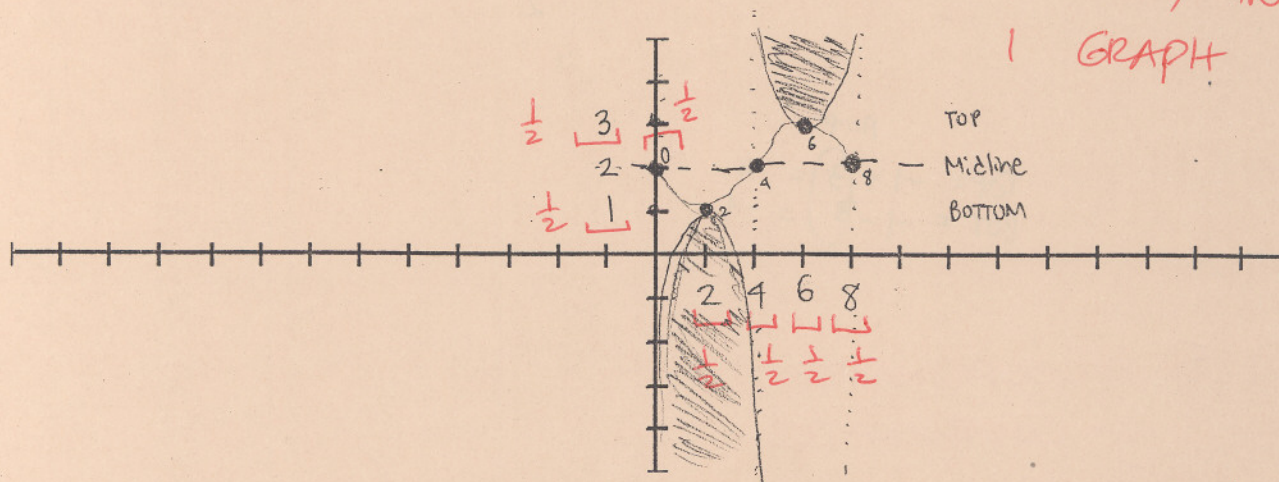
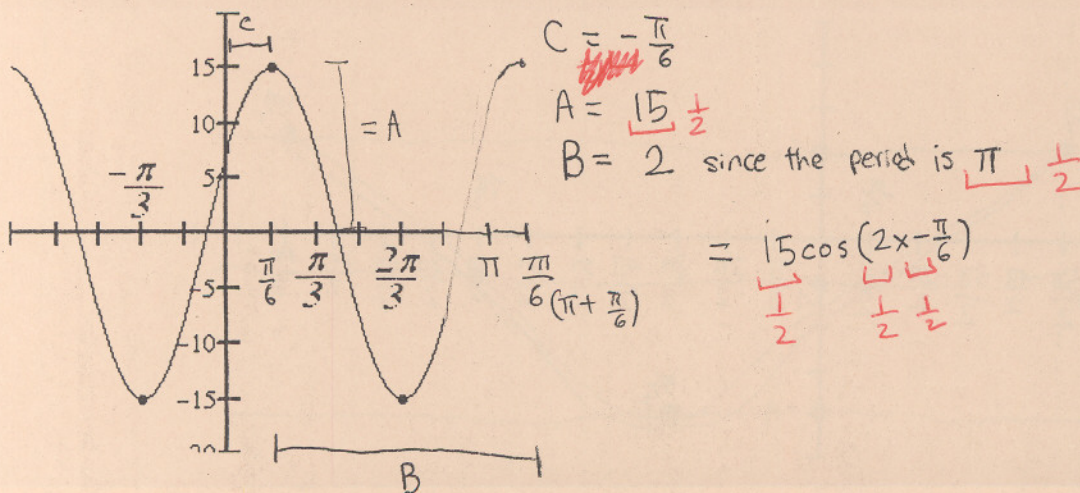
What are the last 2 digits of your DeAnza ID number?

1	2
3	3
5	1
7	2

SCORE: 26 / 30 POINTS**NO CALCULATORS ALLOWED****YOU MUST SHOW PROPER WORK TO RECEIVE FULL CREDIT**Graph one period of the function $y = 2 - \csc \frac{\pi}{4} x$.SCORE: 10 / 10 POINTSLabel the 5 important x -coordinates and 3 important y -coordinates on your graph as shown in class.Draw your graph on the axes included below.

Amp = 1
 Period = $\frac{2\pi}{\frac{\pi}{4}} = \underline{8}$, $\frac{1}{4} \cdot 8 = \underline{2}$
 Midline = 2

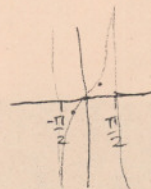
1 ASYMPTOTES
 1 MAX/MIN
 1 GRAPH

Find an equation of the form $y = A \cos(Bx + C)$ for the graph shown below.SCORE: 2 1/2 / 4 POINTS

Fill in the blanks.

SCORE: 1 1/2 / 4 POINTS

- [a] The equations of the asymptotes of $y = \csc x$ are $2\pi + n$
- [b] The period of $y = \csc x$ is 2π $\frac{1}{2}$
- [c] The equations of the asymptotes of $y = \tan x$ are $\frac{\pi}{2} + n$
- [d] The period of $y = \tan x$ is π $\frac{1}{2}$



Graph one period of the function $y = 3\cos\left(\frac{x}{4} + \frac{5\pi}{8}\right) - 1$ using the procedure shown in class.

SCORE: 12 / 12 POINTS

Find all the relevant information (including labeling the 5 important x -coordinates and 3 important y -coordinates) as shown in class.

Draw your graph on the axes included below.

Midline = -1

Amplitude = 3

Period = $\frac{2\pi}{1/4} = 8\pi$

STARTING POINT: $\frac{x}{4} + \frac{5\pi}{8} = 0$

$2x + 5\pi = 0$

$5\pi = -2x$

$-\frac{5\pi}{2} = x$

$1/4 \cdot 8\pi = 2\pi$

$-\frac{5\pi}{2}$ 1st Pt

$-\frac{5\pi}{2} + 2\pi = -\frac{5\pi}{2} + \frac{4\pi}{2} = -\frac{\pi}{2}$

$-\frac{\pi}{2} + 2\pi = -\frac{\pi}{2} + \frac{4\pi}{2} = \frac{3\pi}{2}$

3

Amp

TOP = $-1 + 3 = 2$

BOT = $-1 - 3 = -4$

- 1 FOR 5 X-COORDINATES
- 1 FOR 3 Y-COORDINATES
- 1 FOR 5 DOTS
- 1 FOR GRAPH

