

SCORE: ___ / 120 POINTS

What day of the month is your birthday? ___

What are the last 2 digits of your address? ___

What are the last 2 digits of your zip code? ___

What are the last 2 digits of your social security number? ___

[IF YOU DO NOT HAVE A SOCIAL SECURITY NUMBER,
USE YOUR STUDENT ID NUMBER]**CALCULATOR NOT ALLOWED ON THIS SECTION**Sketch the graph of $y = -3\cos(2\pi x - \pi) + 4$. Include 2 periods.

SCORE: ___ / 12 POINTS

Label all x- and y-coordinates discussed in class.

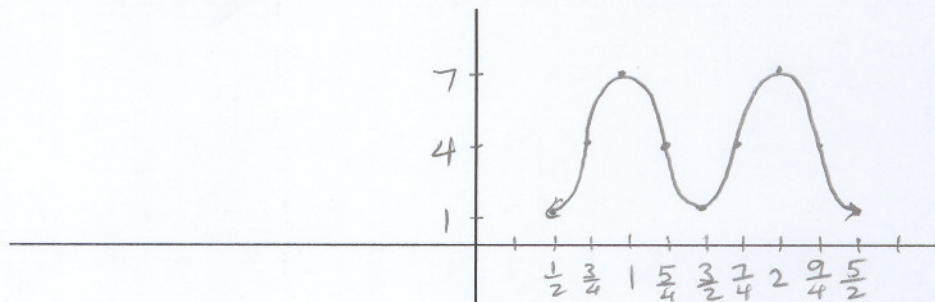
PERIOD = $\frac{2\pi}{2\pi} = 1$

$\frac{1}{4}$ PERIOD = $\frac{1}{4}$

AMPLITUDE = 3

MIDLINE = 4

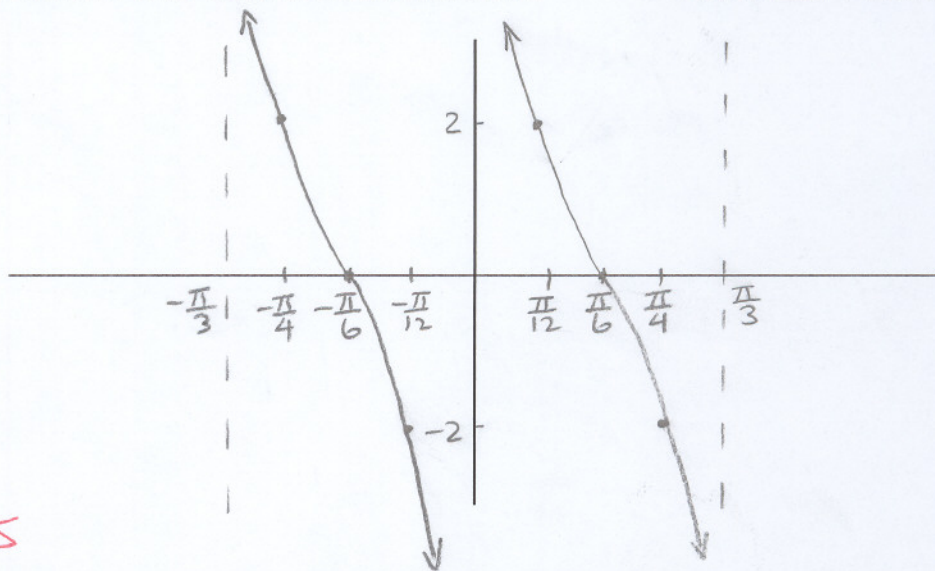
START = $-\frac{-\pi}{2\pi} = \frac{1}{2}$

DIRECTION COS GRAPH 3
UPSIDE DOWN 2
START POINT 2X-COORDINATES 2
Y-COORDINATES 3Sketch the graph of $y = 2\cot 3x$. Include 2 periods. Label all x- and y-coordinates discussed in class.

SCORE: ___ / 8 POINTS

PERIOD = $\frac{\pi}{3}$

$\frac{1}{4}$ PERIOD = $\frac{\pi}{12}$

COT GRAPH 3
ASYMPTOTES 2
X-COORDINATES 2
Y-COORDINATES 1
AT CORRECT
X-COORDINATESWrite $\frac{\sin 72^\circ}{1 + \cos 72^\circ}$ as the sine, cosine or tangent of an angle.

SCORE: ___ / 4 POINTS

$$\tan \frac{1}{2}(72^\circ) = \tan 36^\circ$$

$\frac{1}{2}$ $\frac{1}{2}$ 1