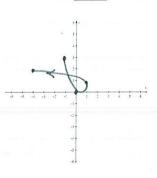
Sketch the curve represented by the parametric equations

$$x = 2t - t^3$$

 $y = 2|t| - t$ for $-1 \le t \le 2$.

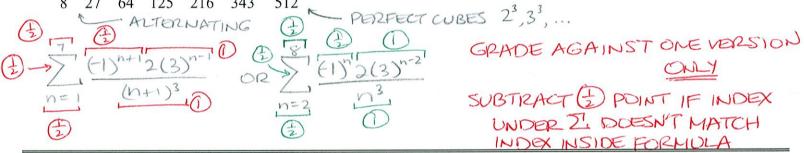
SCORE: /4 PTS

Indicate the orientation (direction) of the curve.



Write $\frac{2}{8} - \frac{6}{27} + \frac{18}{64} - \frac{54}{125} + \frac{162}{216} - \frac{486}{343} + \frac{1458}{512}$ in sigma notation.

SCORE: /4 PTS



UNDER Z. DOESN'T MATCH INDEX INSIDE FORMULA

Find parametric equations for the hyperbola with vertices $(\pm 7, 0)$ and foci $(\pm 9, 0)$.

SCORE: ____/3 PTS

$$\frac{1}{9^{2}-7^{2}+b^{2}}$$
 $\frac{1}{5}$ $\frac{1}{5}$

Prove the formula for the sum of the first n terms of a finite geometric series as shown in lecture.

SCORE: ____/ 5 PTS

·Sn=a,+a,r+a,r2+...+a,rn-3+a,rn-2+a,rn-1, (1) 3-15 = a,-a, m. (E) 1-m) Sn= a (1-r") (1)

