Sketch the curve represented by the parametric equations

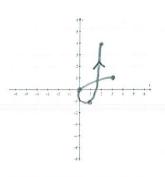
$$x = 2|t| - t$$

 $y = t^3 - 2t$ for $-1 \le t \le 2$.

SCORE: _____ / 4 PTS

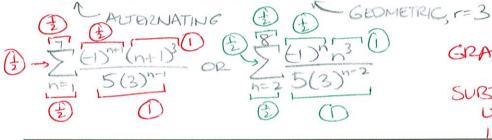
Indicate the orientation (direction) of the curve.

GRADED BY ME



Write $\frac{8}{5} - \frac{27}{15} + \frac{64}{45} - \frac{125}{135} + \frac{216}{405} - \frac{343}{1215} + \frac{512}{3645}$ in sigma notation.

SCORE: ____/4 PTS



GRADE AGAINSTONE VERSION

DULY

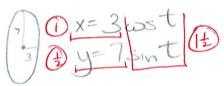
SUBTRACT (E) POINT IF INDEX

UNDER ZI DOESN'T MATCH

INDEX INSIDE FORMULA

Find parametric equations for the ellipse with vertices $(0,\pm7)$ and minor axis of length 6.

SCORE: /3 PTS



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

SCORE: _____ / 5 PTS

$$S_{n} = a_{1} + a_{1}\Gamma + a_{1}\Gamma^{2} + \dots + a_{r}\Gamma^{r}^{3} + a_{r}\Gamma^{r}^{2} + a_{r}\Gamma^{r}^{2$$

