

1. Find the intervals of increase and decrease for $f(x) = 2x^3 + 3x^2 - 12x - 7$

2. Find all critical numbers for $f(x) = 3x^4 - \frac{3}{2}x^2 + 1$, and classify each critical point as a relative maximum, relative minimum, or neither.

Q: What goes up and never comes down?