



A graph of the cubic function $f(x) = 2x^3 - 3x^2 - 12x + 4$ is shown. The x-axis ranges from -3 to 4 with major ticks at -2, 0, 2, and 4. The y-axis ranges from -40 to 20 with major ticks at -40, -20, 0, and 20. The curve starts at approximately (-3, -41), crosses the x-axis at x = -2, reaches a local maximum at (-1, 11), crosses the x-axis again at x = 0, reaches a local minimum at (2, -16), and ends at approximately (4, 44). A legend in the top-left corner identifies the curve with the equation $f(x) = 2x^3 - 3x^2 - 12x + 4$.

$$f(x) = 2x^3 - 3x^2 - 12x + 4$$

20

0

-20

-40

-2

0

2

4