Remainder Theorem:

If polynomial f(x) is divided by (x - b), then the remainder is equal to f(b).

Given $f(x) = 2x^3 - x^2 + 2x - 3$, find the remainder when f(x) is divided by...

$$x-4$$

$$x + 3$$

Factor Theorem:

- 1. If f(b) = 0, then (x b) is a factor of polynomial f(x).
- 2. If (x b) is a factor of polynomial f(x), then f(b) = 0.

Given $f(x) = 2x^3 - x^2 + 2x - 3$, determine if the following are factors of f(x).

$$x-1$$

$$x + 2$$

Remainder Theorem:

If polynomial f(x) is divided by (x - b), then the remainder is equal to f(b).

Factor Theorem:

- 1. If f(b) = 0, then (x b) is a factor of polynomial f(x).
- 2. If (x b) is a factor of polynomial f(x), then f(b) = 0.