# FACTOR THEOREM

Using factor theorem show if the given is a factor of the polynomial.

①    Is $(3x - 2)$ a factor of $3x^3 + x^2 - 20x + 12$?

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②    Is $(x + 2)$ a factor of $4x^3 + 19x^2 + 19x - 6$?

_____

③    Is $(x - 5)$ a factor of $x^3 - 8x^2 + 17x - 10$?

_____

④    Is $(x - 3)$ a factor of $x^3 - 4x^2 - 2x + 20$?

_____

# FACTOR THEOREM

Answers

Using factor theorem show if the given is a factor of the polynomial.

① Is $(3x - 2)$ a factor of $3x^3 + x^2 - 20x + 12$?

Yes, since R = 0

② Is $(x + 2)$ a factor of $4x^3 + 19x^2 + 19x - 6$?

Yes, since R = 0

③ Is $(x - 5)$ a factor of $x^3 - 8x^2 + 17x - 10$?

Yes, since R = 0

④ Is $(x - 3)$ a factor of $x^3 - 4x^2 - 2x + 20$?

No, since R = 5