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The Remainder Theorem

- 1) Find the remainder when $x^3 2x^2 x 2$ is divided by x + 1.
- 2) If $f(x) = x^3 + 3x 4$. Find the remainder when f(x) is divided by x 4.
- 3) Find the remainder when $x^3 + 3x 4$ is divided by x + 1.
- 4) Given that $f(x) = 6x^3 3x^2 17x + 7$, divide f(x) by 2x + 3.
- 5) Find the remainder when $6x^3 + 27x^2 14x + 15$ is divided by x + 5.
- 6) When divided by (x + 1) and (x + 2), the expression ax²+ bx + 3 leaves remainders 6 and 9 respectively. Find the values for a and b

7) Find the remainder when $x^3 + 3x^2 - 5x - 6$ is divided by x + 2.

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The Remainder Theorem

Answers

- 1) Find the remainder when $x^3 2x^2 x 2$ is divided by x + 1. - 4
- 2) If $f(x) = x^3 + 3x 4$. Find the remainder when f(x) is divided by x 4.
- 3) Find the remainder when $x^3 + 3x 4$ is divided by x + 1.

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- 4) Given that $f(x) = 6x^3 3x^2 17x + 7$, divide f(x) by 2x + 3.
- 5) Find the remainder when $6x^3 + 27x^2 14x + 15$ is divided by x + 5.

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6) When divided by (x + 1) and (x + 2), the expression $ax^2 + bx + 3$ leaves remainders 6 and 9 respectively. Find the values for a and b

a=2, b= 1

7) Find the remainder when $x^3 + 3x^2 - 5x - 6$ is divided by x + 2.

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