

Remainder Theorem Worksheets

Use the remainder theorem to find the remainders of the following polynomial divisions.

$$(x^4 + 5x^3 + 11x^2 + 25x + 30) \div (x + 1)$$

$$(x^4 - 23x^2 - 50) \div (x + 6)$$

$$(x^5 + 4x^4 - 9x - 36) \div (x + 4)$$

$$(x^4 - 18x^3 + 120x^2 - 350x + 375) \div (x - 6)$$

$$(x^4 - 20x^2 - 125) \div (x - 4)$$

Remainder Theorem Worksheets

Use the remainder theorem to find the remainders of the following polynomial divisions.

$$(x^4 + 5x^3 + 11x^2 + 25x + 30) \div (x + 1)$$

$$\text{Remainder} = 12$$

$$(x^4 - 23x^2 - 50) \div (x + 6)$$

$$\text{Remainder} = 418$$

$$(x^5 + 4x^4 - 9x - 36) \div (x + 4)$$

$$\text{Remainder} = 0$$

$$(x^4 - 18x^3 + 120x^2 - 350x + 375) \div (x - 6)$$

$$\text{Remainder} = 3$$

$$(x^4 - 20x^2 - 125) \div (x - 4)$$

$$\text{Remainder} = -189$$