

Trinomios

Unknown

2025

1 Introduction

2 Comun Factor

$$AB + AC$$

$$AB + AC + AA$$

$$AB + AC + AA - A^2$$

Factor = A

$$AB + AC + AA - A^2$$

Formula

$$= A(B + C + A - A)$$

$$= A(B)A(C)A(A)A(A)$$

Problems

$$5m^2 + 15m^3$$

$$\begin{array}{cc|c} 5 & 15 & 5 \\ 1 & 3 & \end{array}$$

$$= 5m^2(1 + 3m)$$

3 Trinomio

Trinomio $X^2 - BX + C = (X - P)(X - I)$

Formula

$$X^2 - BX + C = (X - P)(X - I)$$

$$(P)(I) = C$$

$$P - I = B$$

$$I < P$$

Problem

$$\begin{aligned} & \lim_{x \rightarrow 5} \frac{X^2 - 7X + 10}{X - 5} \\ &= \lim_{x \rightarrow 5} X^2 - 7X + 10 = (X - 5)(X - 2) \\ &= \lim_{x \rightarrow 5} \frac{X^2 - 7X + 10 = (X - 5)(X - 2)}{X - 5} \\ &= \lim_{x \rightarrow 5} \frac{(X - 5)(X - 2)}{X - 5} \\ &= \lim_{x \rightarrow 5} \left(\frac{X^2 - 7X + 10}{X - 5} \right) \end{aligned}$$

Problem

$$= \lim_{x \rightarrow 5} \frac{(X - 5)(X - 2)}{X - 5}$$