

Algebraic Proofs

Given: $5x - 1 = 24$

Prove: $x = 5$

Step	Statement	Step	Reason

Given: $2(x + 1) = 10$

Prove: $x = 4$

Step	Statement	Step	Reason

Given: $3x + 2(x - 1) = 13$

Prove: $x = 3$

Step	Statement	Step	Reason

Given: $5x = y - 1$ and $3(x - 1) = y - 4x$

Prove: $x = 2$ and $y = 11$

Step	Statement	Step	Reason