

St. Andrews Scots School

Adjacent Navniti Apartments,

I.P. Extension, Patparganj, Delhi – 110092

Session: 2025 - 2026

Worksheet

Class: VI	Subject: Mathematics	Topic: Algebraic Expressions and Identities	Worksheet-10
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Q1.Simplify the expression $4x+3y-2x+5y-6$

Q2; Expand: $(x+4)(x+2)$

Q3; Verify the identity $(x+3)^2-(x-3)^2=18x$

Q4;Find the value of $2x^2 +3x-4$ when $x=2$

Q5;Evaluate (x^2+2x+1) when $x= -2$

Q6;The sum of a number and its square is 30.Find the number?

Q7;Simplify using the identity $(a+b)^2:(x+2)^2+(x-2)^2$

Q8;Find the square of the binomial: $(5x-3)^2$

Q9;Using the identities,evaluate -1.73×0.27

Q10;If $x+\frac{1}{x}=7$, find the value of: $x^2+\frac{1}{x^2}$

