

St. Andrews Scots Sr. Sec. School

9th Avenue, I.P. Extension, Patparganj, Delhi – 110092

Session: 2025 - 2026

Worksheet

Class: VIII	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: $x^2+\frac{1}{x^2}$

