

Name : \_\_\_\_\_

## Algebraic Identities

Sheet 2

- 1) If the value of  $a + b = 6$  and  $ab = 5$ , determine the value of  $a^3 + b^3$ .

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- 2) If  $x^2 + \frac{1}{x^2} = 23$ , find the value of  $\left(x + \frac{1}{x} + 3\right)^2$ .

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- 3) Find the va

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- 4) What is the  
 $r + 2q + 2p$

4 and

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- 5) Determine the value of  $2y + 3z$ , if  $4(y^2 + 2yz) + 3z^2 = 50$  and  $2y + z = 5$ .

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