

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

## Algebraic Identities

Sheet 3

- 1) What is the value of  $c + 2d$ , if  $c^2 + 7cd + 10d^2 = 72$  and  $c + 5d = 8$ ?

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- 2) Determine the value of  $st$ , if  $s + t = -2$  and  $s - t = 16$ .

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- 3) If  $x - y = 2$  and

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$x^2 + xy + y^2$ .

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- 4) If  $n + \frac{1}{n} = 1$

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- 5) Find the value of  $a + b$ , if  $a^2 - ab + b^2 = 3$  and  $a^3 + b^3 = 9$ .

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