BCM SCHOOL, BASANT AVENUE, DUGRI ROAD, LUDHIANA

CLASS: VIII

SUBJECT: MATHEMATICS

TOPIC: UNDERSTANDING QUARDILATERALS AND FACTORISATION

ANSWER KEY OF ASSIGNMENT

Sol 1. c) 80°

Sol 2. c) (x – 5) (x + y)

Sol 3. a) Both A and R are true and R is the correct explanation of A

Sol4. Since, the sum of two adjacent angles of a parallelogram is 180°

∴ (3x -4)° + (3x + 10)° = 180°

Hence, the angles are 83°, 97°, 83° and 97°

Sol 5. $3(a^4 – 16b^4)$

$3[(a^2)^2 – (4b^2)^2]$

$3 (a^2 – 4b^2) (a^2 + 4b^2)$

$3 [(a^2 – (2b)^2] (a^2 + 4b^2)$

$3 (a – 2b) (a + 2b) (a^2 + 4b^2)$

Sol 6. x = 100°, y = 60°, z = 20°

Sol 7. a) Three types

b) Rectangle, Parallelogram, Kite

c) Let ∠A = $\frac{4}{5}\angle B$

∠A + ∠B = 180°

∠A = 80°

d) 150°