Factorizations Ex 7.6 Q1
rd-sharma-class-8-solutions-chapter-7-factorization-ex-7.6-q1

Factorizations Ex 7.6 Q2

Answer :

$$9a^2 - 24ab + 16b^2$$

$$= \left(3a\right)^2 - 2 \times 3a \times 4b + \left(4b\right)^2$$

$$= \left(3a - 4b\right)^2$$

$$= \left(3a - 4b\right)\left(3a - 4b\right)$$

Factorizations Ex 7.6 Q3

Answer :

$$p^2q^2 - 6pqr + 9r^2$$

$$= \left(pq\right)^2 - 2 \times pq \times 3r + \left(3r\right)^2$$

$$= \left(pq - 3r\right)^2$$

$$= \left(pq - 3r\right)\left(pq - 3r\right)$$

Factorizations Ex 7.6 Q4

Answer :

$$36a^2 + 36a + 9$$

$$= 9\left(4a^2 + 4a + 1\right)$$

$$= 9\left\{\left(2a\right)^2 + 2 \times 2a \times 1 + 1^2\right\}$$

$$= 9\left(2a + 1\right)^2$$

$$= 9\left(2a + 1\right)\left(2a + 1\right)$$

Factorizations Ex 7.6 Q5

Answer :

$$a^2 + 2ab + b^2 - 16$$

$$= a^2 + 2 \times a \times b + b^2 - 16$$

$$= \left(a + b\right)^2 - 4^2$$

$$= \left(a + b - 4\right)\left(a + b + 4\right)$$

********** END *********