

Name - _____

Start time - ___ : ___

End time - ___ : ___

Factorize the following of the difference of two square:Use identity $a^2 - b^2 = (a + b)(a - b)$.

Q1. Factorize by taking the difference of squares

(i) $a^2 - 9$

(ii) $x^2 - 1$

(iii) $49 - a^2$

(iv) $4a^2 - 25$

(v) $x^2y^2 - 16$

(vi) $m^4 - n^4$

(vii) $36x^2 - y^2$

(viii) $a^2b^2 - 16$

(ix) $9x^4y^4 - 25m^4n^4$

(x) $a^4 - 256$

(xi) $81m^2 - 49n^2$

Q2. Factoring by the Difference of Two Perfect Squares

(i) $144x^2 - 169y^2$

(ii) $1 - 0.09x^2$

(iii) $16m^2 - 121$

(iv) $-64x^2 + (9/25)y^2$

(v) $m^4 - 256$

(vi) $(a + b)^4 - c^4$