

2 (vii)  $222\underline{000}$

no. of zeros at end = 3 (odd)

$\therefore 222000$  is not a perfect square

(viii)  $5050\underline{50}$

no. of zeros at end = 1 (odd)

$\therefore 505050$  is not a perfect square.

3. Square of an odd number is odd

(i) 431      (iii) 7779 have odd squares

4.  $11^2 = 121$

$101^2 = 10201$

$1001^2 = 1002001$

$10001^2 = 1000020001$

$1000001^2 = 10000002000001$

(5)  $11^2 = 121$

$101^2 = 10201$

$10101^2 = 102030201$

$1010101^2 = 1020304030201$

$101010101^2 = 10203040504030201$