



Squares and Square Roots Ex 3.4 Q1

Answer :

(i) The unit digit of the number 9801 is 1. So, the possible unit digits are 1 or 9 (Table 3.4). Note that 9801 is equal to 99^2 . Hence, the square root is an odd number.

(ii) The unit digit of the number 99856 is 6. So, the possible unit digits are 4 or 6 (Table 3.4). Since its last digit is 6 (an even number), it cannot have an odd number as its square root.

(iii) The unit digit of the number 998001 is 1. So, the possible unit digits are 1 or 9. Note that 998001 is equal to $(3^3 \times 37)^2$. Hence, the square root is an odd number.

(iv) The unit digit of the number 657666025 is 5. So, the only possible unit digit is 5. Note that 657666025 is equal to $(5 \times 23 \times 223)^2$. Hence, the square root is an odd number.

Hence, among the given numbers, (i), (iii) and (iv) have odd numbers as their square roots.

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