

Squares and Square Roots Ex 3.2 Q1 **Answer:**

A number ending with 2, 3, 7 or 8 cannot be a perfect square.

- (i) Its last digit is 7. Hence, 1547 cannot be a perfect square.
- (ii) Its last digit is 3. Hence, 45743 cannot be a perfect square.
- (iii) Its last digit is 8. Hence, 8948 cannot be a perfect square.
- (iv) Its last digit is 3. Hence, 333333 cannot be a perfect square.

Squares and Square Roots Ex 3.2 Q2

Answer:

A number ending with 2, 3, 7 or 8 cannot be a perfect square.

- (i) Its last digit is 7. Hence, 9327 is not a perfect square.
- (ii) Its last digit is 8. Hence, 4058 is not a perfect square.
- (iii) Its last digit is 3. Hence, 22453 is not a perfect square.
- (iv) Its last digit is 2. Hence, 743522 is not a perfect square.

Squares and Square Roots Ex 3.2 Q3

Answer:

The square of an odd number is always odd.

- (i) 731 is an odd number. Hence, its square will be an odd number.
- (ii) 3456 is an even number. Hence, its square will not be an odd number.
- (iii) 5559 is an odd number. Hence, its square will not be an odd number.
- (iv) 42008 is an even number. Hence, its square will not be an odd number.

Hence, only the squares of 731 and 5559 will be odd numbers.

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