**Determine whether each decimal is rational or irrational number.**

|  |  |  |  |
| --- | --- | --- | --- |
| **1.**  |  | **2.**  |  |
|  |  |  |  |
| **3.**  |  | **4.**  |  |
|  |  |  |  |
| **5.**  |  | **6.**  |  |
|  |  |  |  |
| **7.**  |  | **8.**  |  |
|  |  |  |  |

**Convert each fraction to a decimal, then determine if it is a rational or an irrational number.**

|  |  |  |  |
| --- | --- | --- | --- |
| **9.**  |  | **10.**  |  |
|  |  |  |  |
| **11.**  |  | **12.**  |  |
|  |  |  |  |

**Determine whether each square root is rational or irrational number.**

|  |  |  |  |
| --- | --- | --- | --- |
| **13.**  |  | **14.**  |  |
|  |  |  |  |
| **15.**  |  | **16.**  |  |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **17.**  |  | **18.**  |  |
|  |  |  |  |
| **19.**  |  | **20.**  |  |
|  |  |  |  |

**ANSWERS**

**Determine whether each decimal is rational or irrational number.**

|  |  |  |  |
| --- | --- | --- | --- |
| **1.**  |  | **2.**  |  |
|  | **Irrational number** |  | **Rational number** |
| **3.**  |  | **4.**  |  |
|  | **Rational number** |  | **Irrational number** |
| **5.**  |  | **6.**  |  |
|  | **Rational number** |  | **Irrational number** |
| **7.**  |  | **8.**  |  |
|  | **Irrational number** |  | **Irrational number** |

**Convert each fraction to a decimal, then determine if it is a rational or an irrational number.**

|  |  |  |  |
| --- | --- | --- | --- |
| **9.**  |  | **10.**  |  |
|  | **A terminating decimal****Rational number** |  | **A repeating decimal****Rational number** |
| **11.**  |  | **12.**  |  |
|  | **A repeating decimal****Rational number** |  | **Irrational number** |

**Determine whether each square root is rational or irrational.**

|  |  |  |  |
| --- | --- | --- | --- |
| **13.**  |  | **14.**  |  |
|  | **This number is rational.** |  | **This number is irrational.** |
| **15.**  |  | **16.**  |  |
|  | **This number is irrrational.** |  | **This number is rational.** |

|  |  |  |  |
| --- | --- | --- | --- |
| **17.**  |  | **18.**  |  |
|  | **This number is rational.** |  | **This number is irrational.** |
| **19.**  |  | **20.**  |  |
|  | **This number is irrational.** |  | **This number is rational.** |