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

|  |  |  |  |
| --- | --- | --- | --- |
| **1.**  | $$0.1223426574$$ | **2.**  | $$0.3434343…………..$$ |
|  |  |  |  |
| **3.**  | $$0.\overbar{22}$$ | **4.**  | $$2.389467123…………..$$ |
|  |  |  |  |
| **5.**  | $$12.34\overbar{9}$$ | **6.**  | $$π+34$$ |
|  |  |  |  |
| **7.**  | $$1.12-π$$ | **8.**  | $$34,123876………………$$ |
|  |  |  |  |

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

|  |  |  |  |
| --- | --- | --- | --- |
| **9.**  | $$\frac{32}{25}$$ | **10.**  | $$3\frac{1}{9}$$ |
|  |  |  |  |
| **11.**  | $$\frac{5}{11}$$ | **12.**  | $$\frac{45}{23}$$ |
|  |  |  |  |

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

|  |  |  |  |
| --- | --- | --- | --- |
| **13.**  | $$\sqrt{\frac{324}{81}}$$ | **14.**  | $$\sqrt{155}$$ |
|  |  |  |  |
| **15.**  | $$\sqrt{π}$$ | **16.**  | $$-\sqrt{7,921}$$ |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **17.**  | $$-\sqrt{256}$$ | **18.**  | $$\sqrt{0.1243}$$ |
|  |  |  |  |
| **19.**  | $$\sqrt{487}$$ | **20.**  | $$\sqrt{6,084}$$ |
|  |  |  |  |