|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1. True or False?​Every integer is a rational number.​

|  |  |  |
| --- | --- | --- |
|   | a.  | True |
|   | b.  | False |

|  |  |
| --- | --- |
| *ANSWER:* | a |

 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2. Classify the number as to type. (For example,  is rational and real, where as   is irrational and real.)​​

|  |  |  |
| --- | --- | --- |
|   | a.  | rational |
|   | b.  | natural |
|   | c.  | irrational |
|   | d.  | whole |
|   | e.  | integer |

|  |  |
| --- | --- |
| *ANSWER:* | c |

 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 3. State the real number property that justifies the statement.​​

|  |  |  |
| --- | --- | --- |
|   | a.  | Distributive law for multiplication with respect to addition |
|   | b.  | Commutative law of addition |
|   | c.  | Inverse law of addition |
|   | d.  | Associative law of addition |
|   | e.  | Identity law of addition |

|  |  |
| --- | --- |
| *ANSWER:* | b |

 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4. State the real number property that justifies the statement.​​

|  |  |  |
| --- | --- | --- |
|   | a.  | Inverse law of addition |
|   | b.  | Associative law of addition |
|   | c.  | Distributive law for multiplication with respect to addition |
|   | d.  | Identity law of addition |
|   | e.  | Commutative law of addition |

|  |  |
| --- | --- |
| *ANSWER:* | b |

 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 5. State the real number property that justifies the statement.​​

|  |  |  |
| --- | --- | --- |
|   | a.  | Associative law of multiplication |
|   | b.  | Identity law of multiplication |
|   | c.  | Commutative law of multiplication |
|   | d.  | Inverse law of multiplication |
|   | e.  | Associative law of addition |

|  |  |
| --- | --- |
| *ANSWER:* | c |

 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 6. State the real number property that justifies the statement.​​

|  |  |  |
| --- | --- | --- |
|   | a.  | Associative law of addition |
|   | b.  | Identity law of multiplication |
|   | c.  | Commutative law of multiplication |
|   | d.  | Associative law of multiplication |
|   | e.  | Distributive law for multiplication with respect to addition |

|  |  |
| --- | --- |
| *ANSWER:* | d |

 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 7. State the real number property that justifies the statement.​​

|  |  |  |
| --- | --- | --- |
|   | a.  | Commutative law of multiplication |
|   | b.  | Distributive law for multiplication with respect to addition |
|   | c.  | Associative law of multiplication |
|   | d.  | Associative law of addition |
|   | e.  | Identity law of multiplication |

|  |  |
| --- | --- |
| *ANSWER:* | b |

 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8. State the real number property that justifies the statement.​​​

|  |  |  |
| --- | --- | --- |
|   | a.  | Distributive law for multiplication under addition |
|   | b.  | Associative law of multiplication |
|   | c.  | Commutative law of multiplication |
|   | d.  | Associative law of addition |
|   | e.  | Commutative law of addition |

|  |  |
| --- | --- |
| *ANSWER:* | d |

 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 9. State the real number property that justifies the statement.​​

|  |  |  |
| --- | --- | --- |
|   | a.  | Commutative law of multiplication |
|   | b.  | Property 2 of negatives |
|   | c.  | Property 3 of negatives |
|   | d.  | Property 1 of negatives |
|   | e.  | Associative law of multiplication |

|  |  |
| --- | --- |
| *ANSWER:* | d |

 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 10. State the real number property that justifies the statement.​​

|  |  |  |
| --- | --- | --- |
|   | a.  | Property 2 of negatives |
|   | b.  | Commutative law of multiplication |
|   | c.  | Associative law of multiplication |
|   | d.  | Property 3 of negatives |
|   | e.  | Property 1 of negatives |

|  |  |
| --- | --- |
| *ANSWER:* | d |

 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 11. State the real number property that justifies the statement.​​

|  |  |  |
| --- | --- | --- |
|   | a.  | Property 1 of zero properties |
|   | b.  | Associative law of multiplication |
|   | c.  | Property 2 of negatives |
|   | d.  | Commutative law of multiplication |
|   | e.  | Property 2 of zero properties |

|  |  |
| --- | --- |
| *ANSWER:* | a |

 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 12. State the real number property that justifies the statement.​If , then  or .​

|  |  |  |
| --- | --- | --- |
|   | a.  | Property 2 of negatives |
|   | b.  | Commutative law of multiplication |
|   | c.  | Associative law of multiplication |
|   | d.  | Property 1 of zero properties |
|   | e.  | Property 2 of zero properties |

|  |  |
| --- | --- |
| *ANSWER:* | e |

 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13. State the real number property that justifies the statement.​If , then  or .​

|  |  |  |
| --- | --- | --- |
|   | a.  | Property 5 of quotients and distributive law |
|   | b.  | Property 3 of quotients |
|   | c.  | Property 1 of zero properties |
|   | d.  | Property 2 of zero properties |
|   | e.  | Properties 1 and 4 of quotients |

|  |  |
| --- | --- |
| *ANSWER:* | d |

 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 14. State the real number property that justifies the statement.​​

|  |  |  |
| --- | --- | --- |
|   | a.  | Property 4 of quotients |
|   | b.  | Property 1 of quotients |
|   | c.  | Property 3 of quotient |
|   | d.  | Property 5 of quotients |
|   | e.  | Property 2 of quotients |

|  |  |
| --- | --- |
| *ANSWER:* | e |

 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 15. State the real number property that justifies the statement.​ ​

|  |  |  |
| --- | --- | --- |
|   | a.  | Properties 1 and 4 of quotients |
|   | b.  | Property 2 of quotients |
|   | c.  | Property 1 of quotients |
|   | d.  | Property 3 of quotients |
|   | e.  | Property 5 of quotients and distributive law |

|  |  |
| --- | --- |
| *ANSWER:* | b |

 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 16. State the real number property that justifies the statement.​​

|  |  |  |
| --- | --- | --- |
|   | a.  | Property 3 of quotients and distributive law |
|   | b.  | Property 5 of quotients and distributive law |
|   | c.  | Property 4 of quotients and distributive law |
|   | d.  | Property 6 of quotients and distributive law |
|   | e.  | Property 7 of quotients and distributive law |

|  |  |
| --- | --- |
| *ANSWER:* | d |

 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 17. State the real number property that justifies the statement.​​

|  |  |  |
| --- | --- | --- |
|   | a.  | Property 5 of quotients and distributive law |
|   | b.  | Property 4 of quotients and distributive law |
|   | c.  | Property 7 of quotients and distributive law |
|   | d.  | Property 6 of quotients and distributive law |
|   | e.  | Property 3 of quotients and distributive law |

|  |  |
| --- | --- |
| *ANSWER:* | c |

 |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 18. True or False?​, , .​

|  |  |  |
| --- | --- | --- |
|   | a.  | True |
|   | b.  | False |

|  |  |
| --- | --- |
| *ANSWER:* | a |

 |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 19. True or False?​, ,  , .​

|  |  |  |
| --- | --- | --- |
|   | a.  | True |
|   | b.  | False |

|  |  |
| --- | --- |
| *ANSWER:* | a |

 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 20. Classify the number as to type.​​

|  |  |  |
| --- | --- | --- |
|   | a.  | natural |
|   | b.  | integer |
|   | c.  | rational |
|   | d.  | real |
|   | e.  | irrational |

|  |  |
| --- | --- |
| *ANSWER:* | b, c, d |

 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 21. Classify the number as to type.​​

|  |  |  |
| --- | --- | --- |
|   | a.  | natural |
|   | b.  | irrational |
|   | c.  | rational |
|   | d.  | real |
|   | e.  | integer |

|  |  |
| --- | --- |
| *ANSWER:* | c, d |

 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 22. Classify the number as to type.​​

|  |  |  |
| --- | --- | --- |
|   | a.  | integer |
|   | b.  | real |
|   | c.  | natural |
|   | d.  | irrational |
|   | e.  | rational |

|  |  |
| --- | --- |
| *ANSWER:* | b, d |

 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 23. Classify the number as to type.​​

|  |  |  |
| --- | --- | --- |
|   | a.  | irrational |
|   | b.  | integer |
|   | c.  | real |
|   | d.  | rational |
|   | e.  | natural |

|  |  |
| --- | --- |
| *ANSWER:* | c, d |

 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 24. Classify the number as to type.​​

|  |  |  |
| --- | --- | --- |
|   | a.  | natural |
|   | b.  | real |
|   | c.  | irrational |
|   | d.  | rational |
|   | e.  | integer |

|  |  |
| --- | --- |
| *ANSWER:* | b, c |

 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 25. State the real number property that justifies the statement.​ ​

|  |  |  |
| --- | --- | --- |
|   | a.  | Property 1 of quotients |
|   | b.  | Property 4 of quotients |
|   | c.  | Property 2 of quotients |
|   | d.  | Property 5 of quotients |
|   | e.  | Property 3 of quotients |

|  |  |
| --- | --- |
| *ANSWER:* | c, d |

 |

|  |  |  |
| --- | --- | --- |
| 26. Classify the number as to type.​

|  |  |
| --- | --- |
| *ANSWER:* |  integer, rational, real |

 |

|  |  |  |
| --- | --- | --- |
| 27. Classify the number as to type.​

|  |  |
| --- | --- |
| *ANSWER:* |  rational, real |

 |

|  |  |  |
| --- | --- | --- |
| 28. True or False?​Every integer is a whole number.

|  |  |
| --- | --- |
| *ANSWER:* | False |

 |