**Test plan**

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| --- | --- | --- | --- | --- | --- |
| **ID** | **Description** | **Precondition** | **Expected input** | **Expected**  **output** | **Actual output** |
| TC\_01 | Addition | Both operands are of integer type | 10,5 | 15 | 15 |
| TC\_02 | Subtraction | Both operands are of integer type | 10,5 | 5 | 5 |
| TC\_03 | Multiplication | Both operands are of integer type | 10,5 | 50 | 50 |
| TC\_04\_01 | division | Both operands are of integer type, second operand is not zero | 10,5 | 2 | 2 |
| TC\_04\_02 | division | Both operands are of integer type, second operand is not zero | 10,0 | “Division not possible” | “Division not possible” |
| TC\_05 | Power | Both operands are of integer type | 10,2 | 100 | 100 |
| TC\_06 | Log | Operand is of integer type | 100 | 2 | 2 |
| TC\_07 | Exponent | Operand is of integer type | .5 | 1.64 | 1.64 |
| TC\_08\_01 | Square root | Operand is of integer type | 4 | 2 | 2 |
| TC\_08\_02 | Square root | Operand is of integer type, operand is not a negative number | -4 | “Invalid input” | “Invalid input” |
| TC\_09 | Cube root | Operand is of integer type | 8 | 2 | 2 |
| TC\_010 | Sine | Operand is of float type | 90 | 1 | 1 |
| TC\_011 | Cosine | Operand is of float type | 90 | 0 | 0 |
| TC\_012 | Tangent | Operand is of float type | 45 | 1 | 1 |
| TC\_013 | Sinh | Operand is of float type | 2 | 3.62 | 3.62 |
| TC\_014 | Cosh | Operand is of float type | 2 | 3.76 | 3.76 |
| TC\_015 | Tanh | Operand is of float type | 2 | 0.96 | 0.96 |
| TC\_016\_01 | Sine inverse | Operand is of float type and comes in the range of [-1,1] | 0.5 | .523 | .52 |
| TC\_016\_02 | Sine inverse | Operand is of float type and comes in the range of [-1,1] | 2 | NaN | NaN |
| TC\_017\_01 | Cosine inverse | Operand is of float type comes in the range of [-1,1] | 0.5 | 1.047 | 1.04 |
| TC\_017\_02 | Cosine inverse | Operand is of float type comes in the range of [-1,1] | -8 | NaN | NaN |
| TC\_018 | Tangent inverse | Operand is of float type | 0.5 | 0.463 | 0.463 |