1. **Laws of Indices:**
   1. *am* x *an* = *am*+*n*

|  |  |
| --- | --- |
| *am* | = *am*-*n* |
| *an* |

* 1. (*am*)*n* = *amn*
  2. (*ab*)*n* = *anbn*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | *a* |  | *n* | = | *an* |
| *b* | *bn* |

* 1. *a*0 = 1
  2. *a*-1 = 1/*a*

1. **Surds:**

Let *a* be rational number and *n* be a positive integer such that *a*(1/n) =

Then, *a* is called a surd of order *n*.

1. **Laws of Surds:**
   1. = *a*(1/n)
   2. = x

|  |  |  |
| --- | --- | --- |
|  | = |  |
|  |

* 1. ()*n* = *a*
  2. 
  3. ()*m* =