Evaluate each of the following.

**a. b.**

Therefore,

In general

**c. d. x**

Therefore:

In general:

|  |
| --- |
| **Exponents in the form**  where n is a natural number. (Read the nth root of x) |

**Examples:** Write each of the following in radical form. Evaluate, if possible.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| a. | b. | c. | d. | e. |
| **f.** | **g.** | **h.** | **i.** |  |

|  |
| --- |
| **Take Note:**  Given , if n is an even number, then for the nth root to be real.  if n is an odd number, then x can be any real number. |

Use the exponent laws to express in two ways. **Recall:** Power law (am)n = amn

**a.** **b.**

|  |
| --- |
| **Exponents in the form :**  where m and n are natural numbers. |

**Examples:** Write each of the following in radical form. Evaluate, if possible.

|  |  |  |
| --- | --- | --- |
| **a.** | **b.** | **c.** |
| **d.** | **e. (** | **f.** |
|  |  |  |
|  |  |  |
|  |  |  |