Answer on Question #57178 - Math - Algebra

Question

- 1. Which of the following are true statements about the expression 12^5 Check all that apply.
- : 12 is the exponent and tells us how many times we should multiply 5 by itself.
- : 12 is the base
- : 5 is the base
- : 5 is the exponent and tells us how many times we should multiply 12 by itself.

Solution

- 1. 12 is the exponent and tells us how many times we should multiply 5 by itself False.
- 2. 12 is the base True.
- 3. 5 is the base False.
- 4. 5 is the exponent and tells us how many times we should multiply 12 by itself True.

Answer:

- 1. 12 is the base True.
- 2. 5 is the exponent and tells us how many times we should multiply 12 by itself True.

Question

2. If $\sqrt[n]{a} = r$, then which of the following are true statements? Check all that apply.

$$a^r = n$$

$$a^{\frac{1}{n}} = r$$

$$n^{\frac{1}{r}}=a$$

$$r^n = a$$

Solution

1.
$$a^r = n$$
 – False.

2.
$$a^{\frac{1}{n}} = r$$
 - True.

3.
$$n^{\frac{1}{r}} = a$$
 - False.

4.
$$r^n = a$$
 - True.

Answer:

1.
$$a^{\frac{1}{n}} = r$$
 - True.

2.
$$r^n = a$$
 - True.

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