Bellwork Alg 2B Friday, September 15, 2017

1. State the original problem that was simplified to give the following answer:

Answer: $6m^7p\sqrt[3]{4m^3p^2}$ Orig problem:

2. Simplify each . Assume all variables are positive.

a) $\sqrt[3]{121QR^7} \cdot \sqrt[3]{33Q^9R^5}$ b) $\sqrt{81g^7h^4} \cdot \sqrt{49g^6h^8}$

3.

x	0	2	4	5
$f(x)$	3	1	0	−2

The function $f(x)$ is defined by a polynomial. Some values of x and $f(x)$ are shown in the table. Which of the following must be a factor of $f(x)$?

A. $x-2$ B. $x-3$ C. $x-4$ D. $x-5$

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Answers

1. State the original problem that was simplified to give the following answer:

Answer: $6m^7p\sqrt[3]{4m^3p^2}$

$\sqrt[3]{6^3 \cdot 4\, m^{21} m^3 p^3 p^2}$

Orig problem:

$\sqrt[3]{864\, m^{24} p^5}$

2. Simplify each . Assume all variables are positive.

a) $\sqrt[3]{121QR^7} \cdot \sqrt[3]{33Q^9R^5}$

$11^2 \quad 11 \cdot 3$

$= \sqrt[3]{11^3 \cdot 3Q^{10}R^{12}}$

$= 11Q^3R^4\sqrt[3]{3Q}$

b) $\sqrt{81g^7h^4} \cdot \sqrt{49g^6h^8}$

$= 9g^3h^2\sqrt{g} \cdot 7g^3h^4$

$= 63g^6h^6\sqrt{g}$

3.

x	0	2	4	5
$f(x)$	3	1	0	−2

The function $f(x)$ is defined by a polynomial. Some values of x and $f(x)$ are shown in the table. Which of the following must be a factor of $f(x)$?

A. $x-2$ B. $x-3$ C. $x-4$ D. $x-5$

when $x=4$ $y=0$

which mean $x=4$ is an x-int or zero of $f(x)$

this value of x must have come from the factor $x-4$