

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. $x - 2$

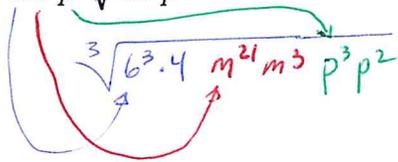
B. $x - 3$

C. $x - 4$

D. $x - 5$

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

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



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 $11 \cdot 3$

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

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

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 $x-4$