

Bell Work 1-27-16

If $f(x) = x^2 - 5$ and $g(x) = 3x + 4$

find:

$(f \cdot g)$ $g(f(x))$ $(f \circ g)(-2)$

Jan 23-10:43 AM

Day 3

① $4m^2n \sqrt[3]{3m}$ ⑪ $x^{\frac{3}{4}}$

② $2rt^2 \sqrt[3]{3r^2}$ ⑫ $(2b)^{\frac{3}{5}}$

③ $3ab^2 \sqrt[4]{a^2bc^3}$ ⑬ $(8ab)^{\frac{5}{6}}$

④ $16c^3d^4f^6 \sqrt[3]{2c^2f^2}$ ⑭ $3^{\frac{1}{2}}n^{\frac{5}{6}}$

⑤ $18r^4s^3 \sqrt[4]{6rst^2}$ ⑮ $5^{\frac{1}{2}}r^{\frac{2}{3}}s^{\frac{1}{4}}$

⑥ $\sqrt[5]{m^4}$ ⑯ 4 ⑰ 8

⑦ $\sqrt[6]{K}$ ⑱ $\sqrt[3]{(8m)^2}$ ⑲ 3

⑧ $\sqrt[3]{(3t)^2}$ ⑳ $\sqrt[4]{8x^3}$ ⑳ 16 ㉑ $128\sqrt{x}$

Jan 27-9:25 AM

12, 13, 15

$$\frac{3\sqrt{6}}{5\sqrt{27}} = \frac{3\sqrt{6}}{15\sqrt{3}} = \frac{\cancel{3}\sqrt{2}}{\cancel{15}_5\sqrt{3}} = \frac{\sqrt{2}}{5}$$

Jan 27-9:32 AM

Operations with Radicals 1-26-15

Ex. 1 $(2\sqrt{7}-3)(\sqrt{7}+4)$ Ex. 2 $(\sqrt{3}+6)(2\sqrt{3}+4)$

$14 + 8\sqrt{7} - 3\sqrt{7} - 12$ $6 + 4\sqrt{3} + 12\sqrt{3} + 24$

$2 + 5\sqrt{7}$ $30 + 16\sqrt{3}$

Ex. 3 $(2-2\sqrt{4})^3$

$(2-2\sqrt{4})$

$(2-2 \cdot 2)$

$(2-4)$

$(-2)^3$

-8

Jan 23-10:49 AM

TRY THIS!!

* $(\sqrt{2}+1)(3\sqrt{2}-7)$ $(4\sqrt{3}-3)(\sqrt{3}+2)$

$3\sqrt{4}$

$6-7\sqrt{2}+3\sqrt{2}-7$

$-1-4\sqrt{2}$

$(\sqrt{2}+1)^3$ $(\sqrt{2}+1)(\sqrt{2}+1)(\sqrt{2}+1)$

$2+\sqrt{2}+\sqrt{2}+1$

$(3+2\sqrt{2})(\sqrt{2}+1)$

$3\sqrt{2}+3+4+2\sqrt{2}$

$7+5\sqrt{2}$

Jan 23-12:28 PM

Simplify

Ex. 4 $\sqrt{\frac{125x^9}{5x^5}}$ Ex. 5 $\sqrt{\frac{128x^6}{2x^4}}$

$\sqrt{25x^4}$ $\sqrt{64x^2}$

$5x^2$ $8x$

Try this!!!

$\sqrt{\frac{243x^{10}}{3x^8}}$ $\sqrt{81x^2}$

$9x$

Jan 23-2:13 PM

Sum/Difference

Find the sum of $\frac{1}{2\sqrt{49}}$ and $\frac{1}{2\sqrt{27}}$.

$\frac{5}{21}$

Find the difference of $\frac{2}{-3\sqrt[3]{8}}$ and $\frac{3}{\sqrt{25}}$.

Try this!!!

Find the difference of $\frac{1}{2\sqrt[3]{27}}$ and $\frac{2}{-3\sqrt[3]{8}}$.

Jan 23-11:06 AM

Conclusion

1. When multiplying to binomials what do you do?
2. What number do you get when you multiply $\sqrt{3} \cdot \sqrt{3}$?
3. What are the calculator steps to solve this problem: Find the difference of $\frac{2}{-3\sqrt[3]{8}}$ and $\frac{3}{\sqrt{25}}$.
4. QUESTIONS????

Jan 23-11:03 AM

Assignment
Operations with Radicals Worksheet

Jan 23-11:03 AM