

Quiz Review

Monday, September 23, 2019 7:46 AM

Simplify the following expressions using only positive exponents.

$$z^5 \cdot z^8$$

z^{13}

$$\frac{t^3}{t^9}$$

t^{-6}

$$(-5t^3x^2y^8)^0$$

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Simplify the following expressions using only positive exponents.

$$\frac{2x^4y^{-4}z^{-3}}{3x^2y^{-3}z^4}$$

$\frac{2x^2}{3yz^7}$

$$\frac{2x^2y^4 \cdot 4x^2y^4 \cdot 3x}{3x^{-3}y^2}$$

$8x^8y^6$

Write each radical using rational exponents.

$\sqrt{\quad}$

$\sqrt[4]{\quad}$

$\sqrt[3]{\quad}$

$\sqrt{7}$

$$7^{1/2}$$

$\sqrt[4]{2}$

$$2^{1/4}$$

$\sqrt[3]{24^5}$

$$24^{5/3}$$

Solve for x in the following equations.

$$5^{9x-4} = 5^{3x+2}$$

$$9x - 4 = 3x + 2$$

$$6x = 6$$
$$x = 1$$

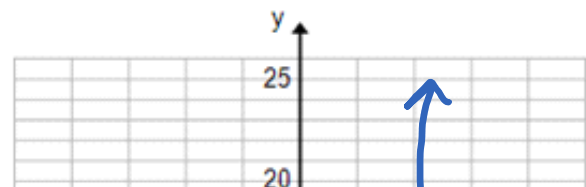
$$4^{5x+6} = 64$$

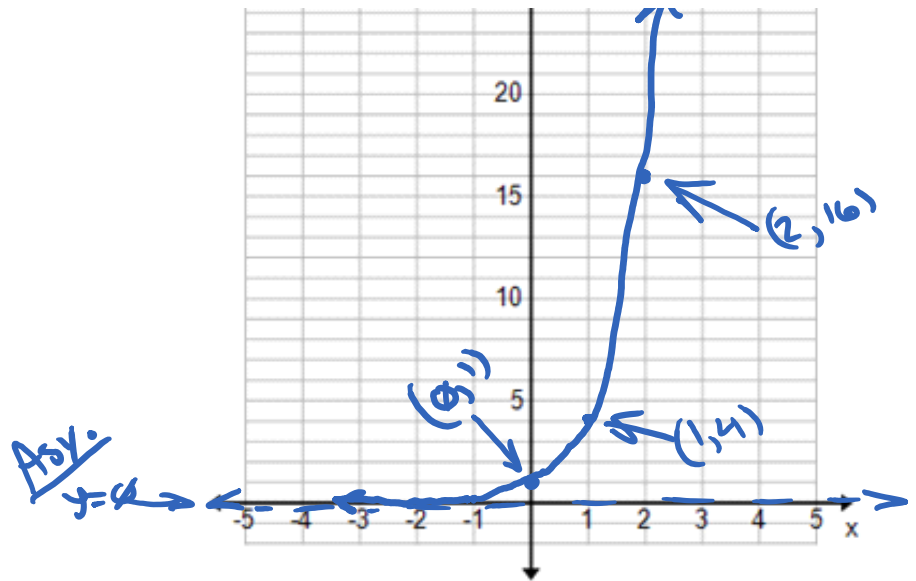
$$4^{5x+6} = 4^3$$

$$5x + 6 = 3$$

$$5x = -3$$
$$x = -\frac{3}{5}$$

Graph the function $f(x)4^x$ in the graph below. Label the asymptote and at least 3 points.





Which of the following is not exponential.

x	0	1	2	3	4
y	3	7.5	18.75	46.875	117.1875

x	0	1	2	3	4
y	32	16	8	4	2

x	0	1	2	3	4
y	2	3	4	5	6

x	0	1	2	3	4
y	4	6	9	13.5	20.25