Pass back Quizzes-

$-3^0 = -1 = -(3^0)$

$(-3)^0 = 1$

$(-4)^2 = 16 = (-4)(-4)$

$(-6)^4 = (-6)\cdot(-6)\cdot(-6)\cdot(-6)$

(4) $(-3x)(2x^5y^{-8})$

$-6x^6y^{-8} = -\frac{6x^6}{y^8}$

(5) $\frac{1}{x^{-3}x^{-8}} = \frac{1}{x^{-11}} = x^{11}$

$3(9\times10^9) = 27\times10^9$

2.7×10^{10}

$.2\times8 = 1.6$

1.6×10^{-11}

(9) $.5\times1.2$

$.60\times10^{-3}$

6×10^{-4}

(12) $x^{-9}\cdot x^{\square} = x^3$

(13) $w^7\cdot w^{\square} = 1$

-7

w^0 $w^1 = w$

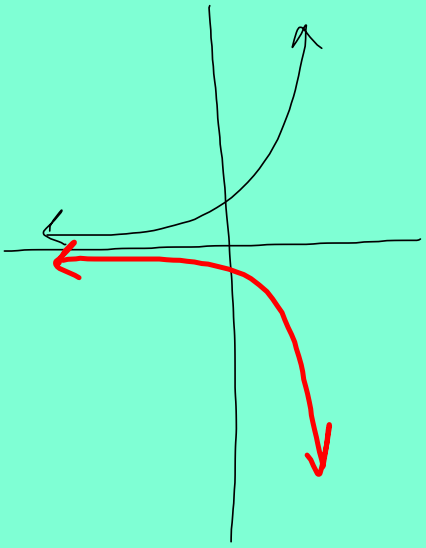
$7x^3\cdot3x^2 = 21x^5$

Homework Questions-

③ $y = 20 \cdot .5^x \qquad x = 3$

$y = 20 \cdot \frac{1^3}{2^3}^x$

$y = 20 \cdot \frac{1}{8} = \frac{20}{8} = \frac{10}{4} = \frac{5}{2}$



$y = 2^x$

$y = -2^x$

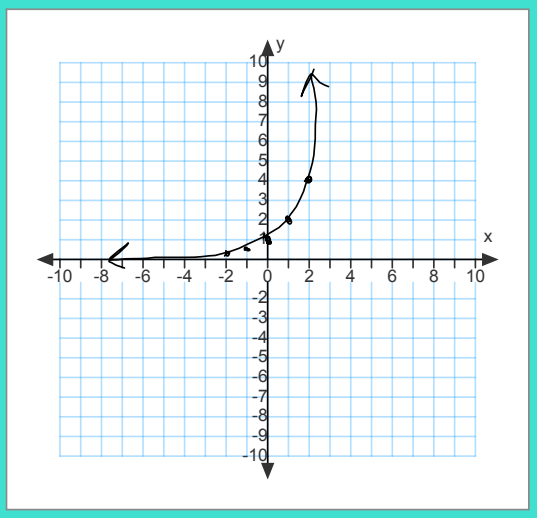
$\left(-\frac{2}{3}\right)^{-3}$

$\left(-\frac{3}{2}\right)^3 \quad -\frac{27}{8}$

Warm up-

Graph the following function by making a table and then plotting points.

x	$y = 2^x$	y
-2	$2^{-2} = \frac{1}{4}$	$\frac{1}{4}$
-1	$2^{-1} = \frac{1}{2}$	$\frac{1}{2}$
0	2^0	1
1	2^1	2
2	2^2	4



Word Problems-

If I invest 500 into an account that doubles every year. How much money will I have in 5 years? 10 years?

$y = a \cdot b^x$

$y = 500 \cdot (2)^x$

$500 \cdot 2^5$

16,000

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