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May 28-31 Final Review for EOCE

## Tuesday:

1. Classify each number as Rational (R) or Irrational (I): $\frac{2}{3}, \pi, \sqrt{144}, 1.3, \sqrt{48}$
2. Write a linear equation in slope-intercept form for the table.

| Input, $\boldsymbol{x}$ | 0 | 1 | 2 | 3 | 4 |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Output, $\boldsymbol{y}$ | 7 | 4 | 1 | -2 | -5 |

\#3-5 Solve the equations:
3. $-7 x+8=71$
4. $-12=\frac{x}{4}-7$
5. $-2(x+4)-6=26$
6. Graph $y=-\frac{1}{3} x+7$

7. Which line is the graph of $y=4 x-1$ ?

2. Solve the system:
$y=2 x+5$ and $2 y-2 x=8$
\#3-6. Simplify:
3. $\left(a^{5} b^{7}\right)\left(a b^{2}\right)$
4. $\frac{18 x^{10}}{3 x^{9}}$
5. $\left(6 x^{3}\right)^{2}$
6. $5 x^{-2}$
7. What is the value of $x$ that would make this equation true? $\frac{m^{24}}{m^{x}}=m^{9}$

## Thursday:

1. Find the equation of these lines:
a. Slope is $-\frac{1}{2}$ and goes through point (4, -3 )
b. Goes through $(1,-5)$ and $(-2,1)$
2. Write the number using scientific notation.
a. $\quad 0.000008037$
b. 580,000
3. Write each number in standard form.
a. $\quad 4.2 \cdot 10^{7}$
b. $\quad 1.8 \cdot 10^{-4}$
4. Multiply and express your answer in scientific notation. $\left(1.7 \times 10^{-5}\right)\left(5.5 \times 10^{3}\right)$
5. Divide and express your answer in scientific notation. $\left(2.7 \times 10^{12}\right) \div\left(3 \times 10^{3}\right)$
6. Write the number 25 using exponents.
7. Write the number 8 using exponents.
8. Find the cube root of 64 .

## Friday:

1. Find the measure of the missing exterior angle ( $\angle T G F$ ).

2. The triangles are similar. Find the value of angle $k$ and side ST.

3. A cone and its dimensions are shown below. What is the volume of the cone? Leave your answer in terms of $\pi$.

4. a. Find the distance between the points in the coordinate grid.
b. Find the slope of the line.

