Unit 2 HW 24

Name	tey	

1. Simplify $-16(-4)^2 + 28(-4) - 57$

2. Solve
$$\frac{2}{3x-13} = \frac{5}{3x+8}$$

$$\times = 9$$

- 3. Sparbucks has decided to charge an annual fee. It then charges you a smaller fee per beverage. My friend Neveah has purchased 12 drinks at Sparbucks, and has paid \$37. I have only purchased 6 drinks, and have paid \$22.
 - a. Write an equation to represent the charges for Sparbucks. See teacher
 - b. How much does Sparbucks charge for a drink? \$ 2.50
 - c. How much is their annual fee?
 - d. If I want to buy 23 drinks, how much will I have to pay Sparbucks in total?

\$64.50

e. If someone paid \$92 this year, how many drinks have they purchased?

4.
$$\frac{x^5y^6}{xy^2}$$

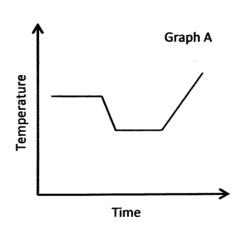
5.
$$\frac{52x^6}{13x^{-1}}$$

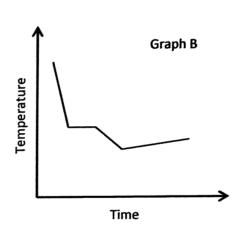
6.
$$(2x^3y^{-3})^{-1}$$

7.
$$(2cd^4)^2(cd)^5(c^{-4}d^3)^0$$

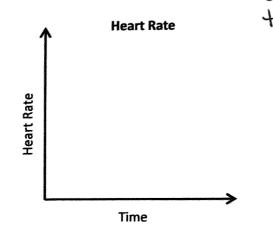
7.
$$(2cd^4)^2(cd)^5(c^{-4}d^3)^0$$

8. Which graph below shows that the air temperature fell steadily, leveled off, fell again, and then increased slightly?





- 9. Sketch the graph for the following situation:
 - a. The heart rate of someone walking, then running, then resting.



b. The height of a basketball being dropped see teacher from a window and bouncing until it comes to rest.

