Unit 2A Review Sheet F18

Name: Xey

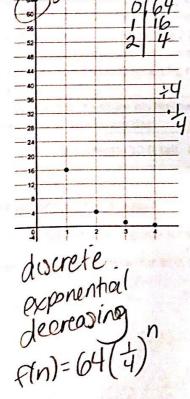
Complete the exponent properties review sheet!

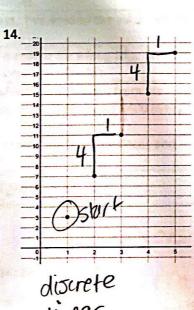
Complete the following statements:
1. When multiplying with like bases, <u>multiply</u> the coefficients and <u>add</u> the exponents.
2. When dividing with like bases, <u>divide</u> the coefficients and <u>Subtract</u> the exponents.
3. When raising to a power, raix to power the coefficients and multiply the exponents.
4. When a function is discrete, the change happens <u>all at once</u>
5. When a function is continuous, the change happens <u>all the time constantly</u>
6. When a function is discrete, it
7. When a function is continuous, it make sense to look at the numbers in between.
8. An arithmetic sequence can be written as afunction.
9. A geometric sequence can be written as a <u>exponential</u> function.
10. The domain of a company is always 1 Allo Old OC MODICAL NUMBERS
11. The domain of a continuous function is always <u>real numbers</u> (but may be restricted)
12. Match each set notation symbols with the name of the set: R Z N Q W
Real numbers Rational numbers Integers I Whole numbers W Natural numbers

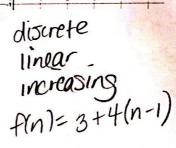
Determine if the graph is discrete or continuous, linear or exponential, and increasing or decreasing. Then write an

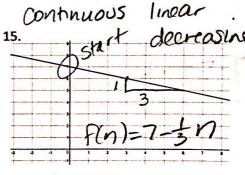
explicit equation for each graph.

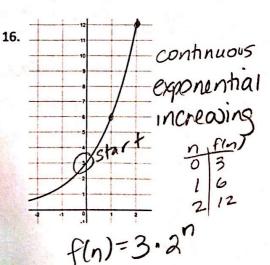
13. Short n from the state of the s











For each situation, determine if the model is discrete or continuous, linear or exponential, and increasing or decreasing.

	Discrete or continuous?	Linear or exponential?	Increasing or decreasing?
10. 6, 12, 24, 48, 96,	DISC	Exp	Inc
11.	Disc	Lin	Dec
12. $f(n) = \frac{4}{3}n + 12$	Cont.	Lin	Inc
13. $f(0) = -6$ $f(n) = \frac{2}{5}f(n-1)$	Duc	EXP	Dec
$14. \ f(n) = 7\left(\frac{3}{2}\right)^n$	Cont	Exp	Inc
15. $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Doc	Exp	Dec
16. Joe has saved \$1000. His account earns 4% interest per year.	Cont	Exp	Inc
17. Selena is collecting magnets. She has 45 so far and plans to add 4 new magnets to her collection every summer.	DISC	Lin	Inc
18. My yard has 1200 square feet of grass. I've seeded the yard and the amount of grass is doubling every week.	cont	EXP	Inc
 Nancy is downloading books on her e-reader for a long trip. She has books now and is downloading 2 books every 5 minutes. 	Cont	Lin	Inc
20. Savion has retired and has started withdrawing money from his savings. He had \$65,000 when he retired and he withdraws \$400 every month.	Disc	Lin	pec
21. Harry wants to share his Halloween candy. He has 500 pieces and will give away 10% every day.	Disc	EXP	Dec
22. The tree is currently 10 ft tall. It will grow 3 ft per year.	Cont	Lin	Inc

On a separate piece of paper,

(16) f(n)=1000 (1.04)

Draw and fully label and graph for #11, 16, 20, 21, and 22 (17) f(n) = 45 + 4n

Write an explicit equation for #10, 11, and 15 - 22

(B) f(n)= 1200(2)n

10) f(n)= 6.2n-1

19 f(n=3+=n

20 f(n)=65000-400n

(1) f(n) = 6 - 3(n-1)(15) $f(n) = 100 (t_0)^n$

 $f(n) = 500(.9)^n$

