RIDDLE NAME _____

PRE AP ALGEBRA 2

TEST #6 REVIEW

Simplify.

1. $-\sqrt[4]{256}$

2. $256^{\frac{1}{4}}$

3. $32^{-\frac{3}{5}}$

4. $\left(\frac{36}{25}\right)^{\frac{1}{2}}$

5. $m^{\frac{3}{4}}n^{\frac{5}{2}}p^{\frac{9}{8}}$

6. $\frac{1}{y^{\frac{3}{5}}}$

7. $\frac{5}{x^{\frac{1}{2}}-2}$

8. $\left(d^{\frac{2}{5}}\right)^{\frac{15}{8}}$

9. $\sqrt[6]{(m+4)^6}$

10. $\sqrt{676x^4y^6}$

11. $\sqrt[3]{-27x^9y^{12}}$

12. $\sqrt[3]{-432}$

13. $\sqrt[4]{\frac{8}{9a^3}}$

14. $\sqrt{\frac{11}{9}}$

15. $\sqrt{3x^2y^3}\cdot\sqrt{75xy^5}$

16. $\sqrt[3]{9t^5v^8}\cdot\sqrt[3]{6tv^4}$

Express using rational exponents.

17. $\sqrt[3]{26}$

18. $\sqrt[7]{4}$

19. $\sqrt[10]{x^6}$

Solve each equation. You must check your work.

20. $\sqrt{5y+4}=8$

21. $\sqrt[4]{a+5}-1=0$

Graph:

1. f(x) = $\sqrt{x}$
2. f(x) = - $\sqrt{x}$
3. f(x) = $\sqrt{x}$ - 1
4. f(x) = $\sqrt{x-1}$
5. f(x) = $\sqrt{x}$ /2
6. f(x) = 2 $\sqrt{x}$
7. f(x) = $\sqrt{x+2}$ - 3
8. f(x) = $\sqrt[3]{x}$
9. f(x) = $\sqrt[3]{-x}$
10. f(x) = $\sqrt[3]{x}$ + 2
11. f(x) = $\sqrt[3]{x+2}$
12. f(x) = - $\sqrt[3]{x}$
13. f(x) = 3 $\sqrt[3]{x}$