

NAME: _____

WEEKLY REVIEW SHEET #20

DATE: _____

ALGEBRA

1 – 5 Multiple Choice. (3 points each)

1. An expression of the sixth degree is written with a leading coefficient of five and a constant of three. Which expression is correctly written for these conditions?
a. $3x^6 - x^4 + 5$ b. $5x^6 + 2x^2 + 3$
c. $3x^5 - x^3 + 6$ d. $7x^3 + 3x + 5$

2. Subtract $a^3 - 8a^2$ from $-6a^3 + a^2 - 5$.
a. $6a^3 + 9a^2 - 5$ b. $-6a^3 + 9a^2 - 5$
c. $7a^3 - 9a^2 - 5$ d. $-7a^3 + 9a^2 - 5$

3. Under which operation is the set of even numbers **NOT** closed?
a. addition b. subtraction
c. multiplication d. division

4. What is the precision of 0.37 inches?
a. 2 b. 3 c. hundreds d. hundredths

5. The y-intercept of the graph of $2x + 3y = 6$ is:
a. -3 b. 2 c. 3 d. 6

6. If $f(x) = 3x - 4$ and $g(x) = x^2$, find the value of $f(3) - g(2)$. **(3 points)**

7. What transformations are required to make the graph of $f(x) = |x|$ into the graph of $f(x) = -2|x - 5| + 3$? **(4 points)**

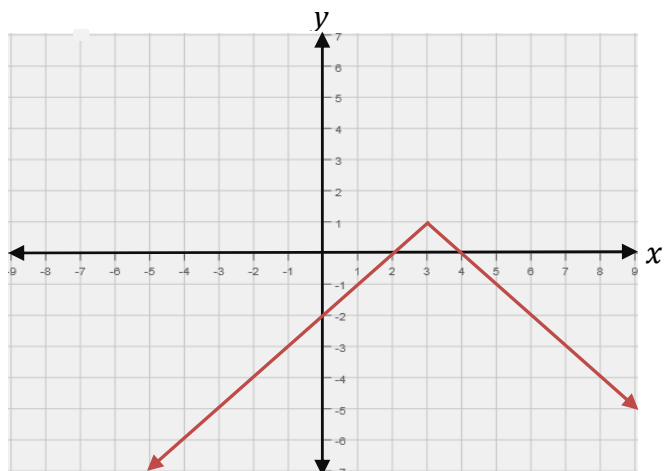
8 – 9 Simplify. (4 points each)

8. $(2xy^3)^4(-x^3y^2)^3$

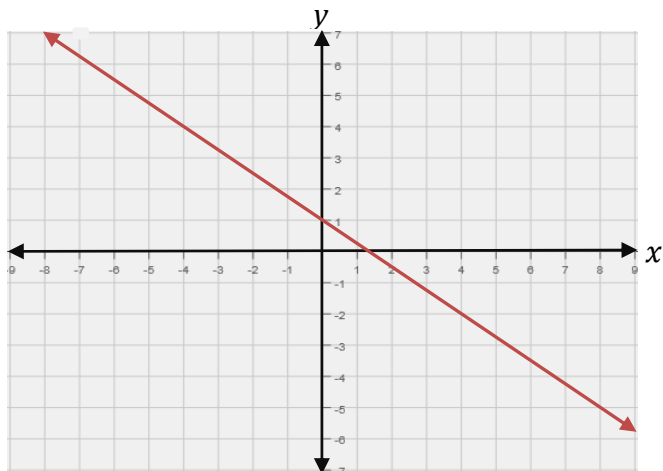
9. $5(2x^2 - 3x) + 3x(2x + 3) + x - 6$

10 – 12 Name the graphed function.

10. (3 points)



11. (3 points)



12. (4 points)

