

Algebra 2: 2020 Summer Review/Supply List

Introduction

Hello! I am very excited to teach you this upcoming school year. Hopefully we will all be back in the classroom! Please complete the Summer Review. The Summer Review is a helpful tool that will strengthen your math skills over the summer. If you have any questions, you can email me at: acosentino@iccatholicprep.org. I will make myself available to you through email and we can also set up a Zoom meeting to help you go over any questions you may have. I look forward to seeing you in August!

Summer Review

The Summer Review will consist of 30 problems. These problems are review to material that you learned in your previous course. Please complete the entire Summer Review. **You must show your work.** If you do not show your work, you will not receive full credit. The Summer Review will be due on the first day of class. Points will be deducted from your grade if your Summer Review is not turned in on time.

Class Supplies

- Textbook: Algebra 2, Carter, Cuevas, Day, et al – Glencoe, 2014
- 1-2 Notebooks
- Loose leaf paper and graph paper
- Pencil, red pen, highlighter
- TI-84 (or plus) graphing calculator
- 1 box of Kleenex/Clorox Wipes

*You will be assessed on the summer review within the first week of class.

Algebra 2: Summer Review

Name: _____

Date: _____

Perform the operation.

1. $9 + (-13)$

2. $(-17) + (-7)$

3. $6 - 14$

4. $16 - (-9)$

5. $-35 \div 7$

6. $(-11)(-3)$

7. $-8 + -13$

8. $\frac{-20}{8} \div \frac{-6}{4}$

Write each as an algebraic expression.

10) the difference of m and 18

11) the product of q and 13

12) the sum of 9 and x

13) the quotient of 36 and j

Solve each problem.

14) What percent of 54 is 19? *Hint: divide*

15) What is 12% of 27? *Hint: use a decimal and multiply*

16) What is 20% of 62? *Hint: use a decimal and multiply*

Powers, Exponents and Order of Operations. Write the expression using exponents.

17) 8 to the fourth power

18) -9 to the fifth power

19) $x \cdot x \cdot x \cdot x \cdot x \cdot x$

Evaluate the expression.

20) 6^4

21) $(-4)^3$

22) -5^2

Evaluate the expression using the order of operations. (PEMDAS)

23) $18 + 7 - 5 \cdot 6$

24) $-6 + 2(-4 + 6)^2$

25) $|-15 + 8| + |17 - 36|$

26) $28 - 8 \cdot 14 \div 2$

Evaluate using the values given.

27) $a(b + a)$; use $a = 6$, and $b = 8$

Simplify each expression.

28) $6a^3 - 2a - 4 + 6 + 6p - 8a^3$

Solve the equation.

29) $-7 = \frac{2a}{3} - 4$

Bonus Question:

30) What is something that you are looking forward to this upcoming school year?
