



Holy Trinity Academy of Calamba, Inc.

Brgy. Barandal, Calamba City, Laguna

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Training the mind Shepherding the heart

Review Test General Mathematics S.Y. 2019-2020

NAME: _____

Grade & Strand: _____

Date: _____

Ms. Melicyn M. Higoy

General Instructions: Kindly follow the directions. Show your solutions clearly and box your final answer.

I. Give the value of the following:

1. $\sqrt{144} =$	2. $\sqrt{40} =$	3. $\sqrt{27} =$
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II. Apply the laws of exponents to simplify the following:

1. $(2xy^4z^2)^5$	2. $\frac{8x^3y^4z^5}{2xy^2z^4}$	3. $\left(\frac{xy^2}{x^4y^3}\right)^5$
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III. Perform the indicated operations.

a. Integers

1. $(-76) + 87 + 76 + (-87) =$	2. $(-3) - (-5) - (-7) =$	3. $(-96) \div 4 + 125 \div (-5)(-5) =$
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b. Fractions

1. $\frac{7}{8} + \frac{3}{4} =$	2. $\left(\frac{-7}{3}\right) - \frac{3}{4} =$	3. $\left(-\frac{8}{5} + \frac{6}{2}\right)\left(\frac{12}{9}\right) =$
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c. Polynomials

1. $(5x^3 - 6x - 4) + (10m^3 - 8m - 16) =$	4. $(y + 5)(y - 13) =$
2. $(2x^2 + 3x - 5) - (3x^2 + 5x + 7) =$	5. $(y + 5)(y^2 + 2y + 1) =$
3. $(3x^2)(x^2 - 6x - 8) =$	6. $\frac{3x^2 + 2x + 1}{x + 1} =$

d. Rational Algebraic Expressions

1. $\frac{4}{x+2} - \frac{x+4}{x+2} =$	2. $\frac{2x}{x^2-81} - \frac{3}{x-9} =$
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IV. Factor the following:

1. $x^2 + 9x + 8 =$	2. $x^2 - 6x + 9 =$	3. $2x^2 + 3x - 20 =$
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V. Evaluate each algebraic expression given the corresponding value of the variable.

1. $5x^2 + 2x + 3; x = 2$	2. $(x + y)^2 - 7; x = 3, y = 7$	3. $\frac{16x^2}{4c+2}$ $\frac{3c+2}{3c+2}$
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