Adult **Upgrading**

PRACTICE
MATHEMATICS SKILLS ASSESSMENT

Calculators are not to be used during the assessment.

Fundamental Level - MATH 040, 050 & 060

Addition, subtraction, multiplication and division using whole numbers, decimals and fractions are some of the topics covered in the Fundamental level. There is also an introduction to estimation, percent, ratios and proportions.

Sample Questions:

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1. Solve the following proportion.

   – = —

2. If 1 g = 1000 mg, How many g are in 700 mg?

3. Simplify —.

4. Evaluate using the correct order of operations. (i.e. BEDMAS)

   40 2^2 3^2 5

5. Find the area and the perimeter of the rectangle.

6. Find the average of 6, 8 and 16.

7. Divide.

8. Subtract.

9. Write the correct symbol, (greater than) or (less than)

   ——

10. Evaluate the expression

    $\frac{x}{2}$ 5 when x 8

11. Solve.

    $5x$ 8 12

12. Solve.

    x 4 $2x$ 3

Advanced Level - MATH 080/IALG 011 & MATH 011

MATH 080/IALG 011 is an introductory course at the Advanced level. This course refreshes basic numerical skills and prepares students for further studies in algebra. Some topics in this course include graphing linear equations, first-degree equations and inequalities, polynomials, factoring, systems of linear equations, rational expressions and equations, radical expressions and equations, quadratic equations, and trigonometry.

MATH 011 is equivalent to Pre-Calculus 11 and builds upon the skills in MATH 080/IALG 011. This Advanced level course includes a study of polynomials, rational expressions and equations, powers and radicals, related equations, second-degree equations, systems of linear equations, relations, functions and graphing, and trigonometry.

Sample Questions:

1. Simplify.

2. Collect like terms.

   $2y$ $3y^2$ $3y$ y^2

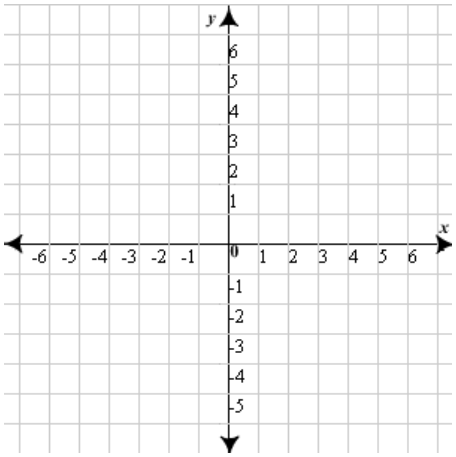
3. Solve.

28. Solve.

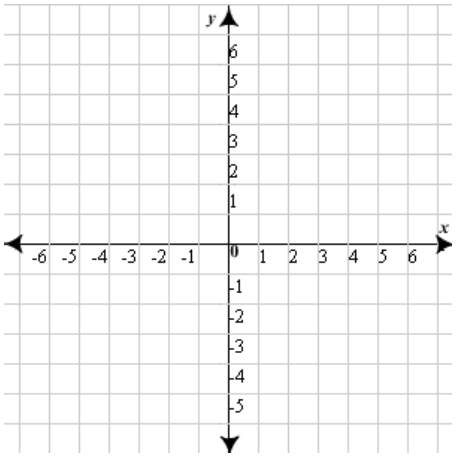
29. Subtract and simplify.

30. Simplify.

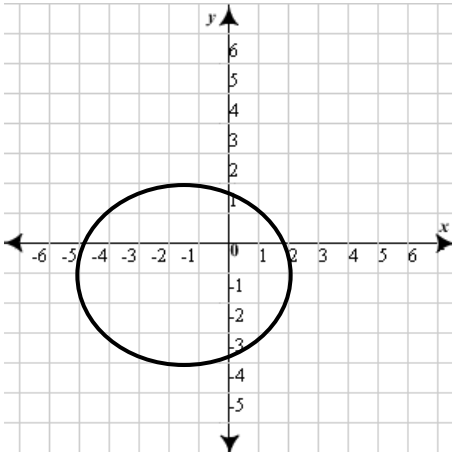
31. Graph.



32. Graph . Find the vertex, the line of symmetry, and the maximum or minimum value.



33. Find the domain and the range.



Provincial Level - MATH 012

MATH 012 is equivalent to Pre-Calculus 12. Students who complete most of the questions on the Math Skills Assessment correctly may be placed into MATH 012.