Name: _____ Date: _____

Grade 10 Academic Math - EXAM REVIEW

UNIT 1 – Linear Systems

1. Solve each system of equations by substitution.
   a) $3x + 5y = 2$, $x + 4y = -4$
   b) $3x + 2y = 9$, $-x + 3y = 8$
   c) $2x + y = 4$, $4x + 9 = -2y$

2. Solve each system of equations by elimination.
   a) $4x + 5y = -3$, $4x + 9y = 1$
   b) $5x + 4y = 5$, $3x - 2y = 3$
   c) $2x + 5y = 3$, $4x + 10y - 6 = 0$

3. When solving a system of linear equations using elimination, the equation $0 = 5$ is obtained. Explain what this means.

4. Carlos invested in a term deposit that paid 4% interest per annum and in a municipal bond that paid 6% interest per annum. If he invested a total of $13 000 and earned $700 interest in a year, how much did he invest at each rate?

5. A chemistry teacher needs to make 20L of a 36% sulfuric acid solution. The acid solutions available are 30% sulfuric acid solution and 40% sulfuric acid solution. How many litres of each solution should be mixed to make the 36% solution?

6. It took a patrol boat 3h to travel 48km up a river against the current and 2h for the return trip with the current. Find the speed of the boat in still water and the speed of the current.

UNIT 2 – Quadratic Expressions

1. Expand and simplify a) $3x(4x + 7) - 2(x^2 - 5x)$ b) $(5y + 1)(y - 7)$ c) $3(x+1)(x-1) - (x+1)^2$

2. Factor completely.
   a) $24xy^2 - 12xy + 36x^2y$
   b) $3ax^2 - 21axy + 30ay^2$
   c) $12x^2 - 11x + 2$
   d) $y^2 - 16$
   e) $25a^2 - 49b^2$
   f) $16x^2 - 36$
   g) $6m^2n^2 + 18m^2n - mn^2$
   h) $64x^2 - y^2$
   i) $3x^2 - x - 14$

3. A triangle has equal base and height. An expression for the base of the triangle is $2x - 6$. Find a simplified expression for the area of the triangle.

4. The area of a rectangular lot is $3x^2 + 8x + 4$.
   a) Determine the dimensions of the lot.
   b) If the of value x is 4 metres, state the dimensions and the area of the lot.

UNIT 3 – Quadratic Relations

1. For each of the following quadratic relations, state the vertex, axis of symmetry, direction of opening, maximum/minimum value, and possible y-values. Then describe all the transformation in words.
   a) $y = -2(x+5)^2 - 1$
   b) $y = x^2 + 2$
   c) $y = -\frac{1}{4}(x-9)^2$

2. Determine the equation of a quadratic relation that is compressed vertically by a factor of ¾, reflected in the x-axis, and then translated 3 units to the left and 5 units down.

3. Graph the following quadratic relations:
   a) $y = 2(x + 5)^2 - 1$
   b) $y = -\frac{1}{2}(x - 3)^2 + 7$

Grade 10 Academic Math Linear Systems Practice Test A

Christian G. Meyer

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