Review for Comprehensive Test #2 on Tuesday November 28, 2017

This will be a comprehensive test that covers Topics 4-6 (Ch.2, 3.3-3.8 and 5.1-.5.3)   **Note: An approved calculator will be allowed for the Test**

Topic 4- Trigonometric Ratios Ch 2 (2.1-2.7)

Concept #	Concept	Review Questions
15	2.1/2.4 Correctly set up the primary trigonometric ratios (sin, cos, tan) for acute angles in right triangles **(C)(Skill & Problem Solving)**	**Pg 124 #2 Pg 127 #1**
16	2.1/2.4 Correctly solve for an acute angle measure in a right triangle using the primary trig ratios **(C) (Skill & Problem Solving)**	**Pg 131 #14, 17, 18,21**
17	2.2/2.5 Correctly solve for a side length in a right triangle (using primary trig ratios and/or the Pythagorean Theorem) & solving entire triangles **(C) (Skill & Problem Solving)**	**Pg131 #15,16, 19, 20**
18	2.7 Solve problems involving one or more than one right triangle **(C) (Skill & Problem Solving)**	**Pg 131 #22 Pg 127 #6 Pg 126#23**

Topic 5 – Polynomials (Multiplying and Factoring) (3.3-3.8)

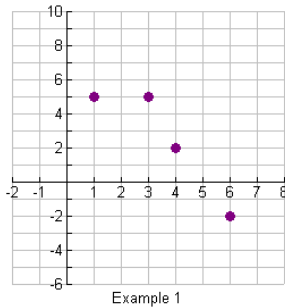| Concept #	Concept	Review Questions
19	3.5/3.6 Correctly multiply two binomials **(NC) (Skill)**	**Pg 252 #12 (Just expand and simplify)**
20	3.7 Correctly multiply a binomial by a trinomial and a trinomial by a trinomial **(NC)(Skill)**	**Pg 253 #16, 17**
21	3.5 Correctly factor using GCF and a trinomial $x^2+ bx + c$ by method of choice. **(NC (Skill)**	**Pg 199 #19,21**
22	3.6 Correctly factor using GCF and a trinomial $ax^2+ bx + c$, where a > 1 by method of choice **(NC)(Skill)**	**Pg 200 #25 Pg 252 #14cd**
23	3.8 Factoring using GCF and/or all of the above (including perfect square trinomials, trinomials in two variables, difference of squares) **(NC)(Skill)**	**Pg 253 #15, Pg 200 #32**

Topic 6 – Relations and Functions (5.1-5.3)

Concept #	Concept	Review Questions
24	5.1/5.2 Be able to express relationships in a variety of ways & correctly identify whether that relationship is a function or not with justification **(NC)**	**Pg 326#1,3, 9 pg 459 #10,11a**
25	5.2 Correctly determine the domain and range of linear & non-linear relations using interval notation, set notation or lists **(NC)**	**Pg 459 #11b, #14, 16c**
26	5.3 Sketch a graph to represent a situation, interpret a given situation, be able to identify the independent and dependent variables and determine if the data points should or should not be connected on the graph (discrete or continuous)**(NC)**	**Pg 459 #12,13 pg 326 #6, 7 Pg 327 #8 pg 286 #1,2**

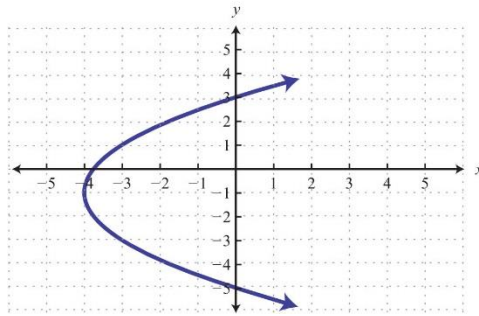**Additional Questions:**

1. Find the domain and range of the following graphs. Are they functions or not?

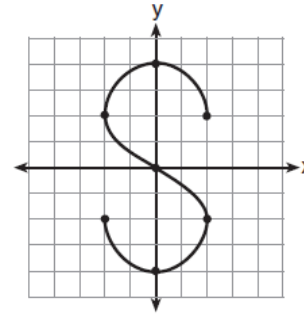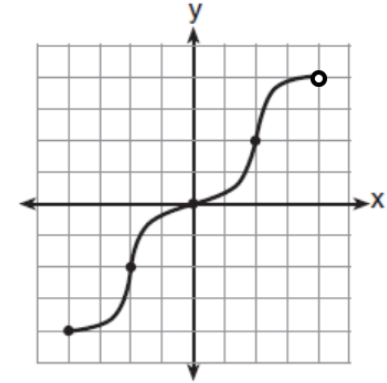**a)**   b) Interval Notation   c) Set Notation   d) Interval & Set Notation

Example 1

2. Draw a fully labelled graph to accompany the following situation:

Jonah is watching television. After 3 min his mom enters the room to ask him a question. He turns the volume down a bit, answers his mom, then turns the volume back up. Two minutes later, Jonah's dad turns on the dishwasher so Jonah gradually turns up the volume. After a further 3 minutes, a commercial comes on so Jonah presses the mute button."