GROUP 1

1) Determine the domain and range of the graph at right. 

2) What is the equation for the asymptote for the graph of \( y = 5^{x-6} + 4 \) ?

3) In the diagram at right, arc measure \( RT = (a + 3c)^\circ \), and arc measure \( QS = (c + d)^\circ \). Find \( m\angle 1 \).

GROUP 2

1) Perform the operation and simplify: \( \frac{x}{x^2 - 4x + 4} \div \frac{1}{x - 2} \).

2) Using one of the adjectives “perfect,” “high,” or “low”, and one of the adjectives “positive” or “negative”, or just simply “no,” describe the type of correlation associated with the graph at right.

3) A shipment of twelve microwave ovens contains three defective units. In how many ways can a company purchase four of these units and receive all good units?
Integrated Math 4

49A  Linear: Point-Slope
49B  Evaluate Logarithms

50A  Shifts of Graphs: Vertical Or Horiz. only
50B  Function Composition

51A  Complex Numbers Powers
51B  Special Triangles
51C  Factoring all Quadratics higher Powers

52A  Solving Imbedded Quadratics
52B  Combinatorics
52C  Domain and Range in Equation

53A  Sum of Geometric Sequences
53B  Solve Quadratics by Factoring

54A  Radians
54B  Greatest Integer Function
54C  Shifts of Parent Graphs: Vertex

55A  Complex Numbers Operations
55B  Circles: Central Angles
55C  Rational Expressions: Simplifying

56A  Congruence Theorems
56B  Inverse Functions

57A  Right-Angled Trig.
57B  Completing the Square

58A  Triangle Centers
58B  Complex Numbers Graphing
58C  Shifts of Parent Graphs: Scaling

59A  Circles: Inscribed Angles
59B  Conditional Probability

60A  Pythagorean Identity
60B  Rational Expressions: Multiplying
60C  Shifts of Parent Graphs: All

61A  Permutations and Combinations
61B  Graphing Quadratics: Vertex Form
61C  Arcs and Sectors

62A  Angles formed by Secants and Tangents
62B  Graphing Circles
62C  Quadratic Formula

63A  Parabolic Symmetry
63B  Rational Expressions: Dividing
63C  Graph Exponentials

64A  Parabola Formula by Vertex and Point
64B  Proportions with Chords, Secants, Tangents
64C  Solving Systems by Graphing