# Geometry: Chapter 13 Review

1. Name the sets to which each number belongs:
   1. 
   2. –14
   3. 0.64
   4. 0
   5. 
   6. π
2. A = {1, 3, 5, 7, 9, 11} B = {2, 4, 6, 8, 10}

C = {0, 1, 3, 10}

* 1. A ∪ B
  2. A ∩ C
  3. (A ∪ C) ∩ B

1. Write an equation of a line with the following conditions: ∩
   1. Through (3, 4) and parallel to the x-axis
   2. With y-intercept = 3 and

x-intercept = 5

1. Graph (using graph paper)
   1. y = -2
   2. x = 4
   3. 
   4. 
2. Solve:
   1. 
   2. 
3. Factor Completely:
   1. cx + cy + bx + by
   2. 169 – 49x2
   3. 16x4 – y4
   4. 4x2 + 20x + 25
   5. 3x2 + 5x + 2
   6. 4x2 – 8xy – 12y2
   7. 3x2 – 10x + 8
   8. a2b +a2 + 2b + 2
   9. 6x2 + 33x – 63
4. Solve:
   1. 4x2 – 17x + 4 = 0
   2. x2 + 3x = 40
   3. x3 = 81x
   4. 4x2 = 25
   5. x2 – 8x + 14 = 0
   6. x2 – 5x – 10 = 0
   7. x2 + 8x – 84 = 0
5. Simplify completely: Assume all variables

are non-negative.

* 1. 
  2. 
  3. 
  4. 
  5. 
  6. 
  7. 
  8. 

1. Solve and Graph:
   1. 
   2. 
   3. 
   4. 

**Room to show work:**