Regents Exam Questions by Topic
INEQUALITIES: Quadratic Inequalities
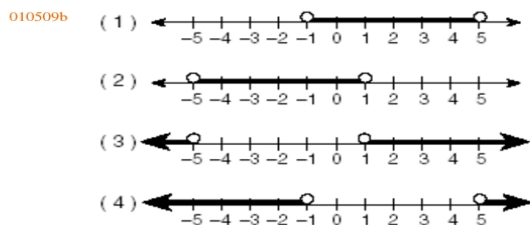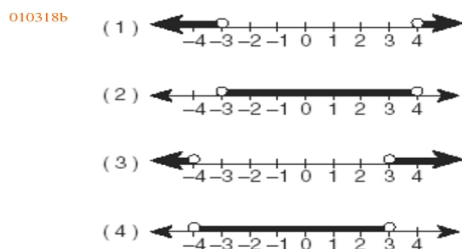www.jmap.org   Name: _____

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1   Which graph represents the solution set of the inequality $x^2 - 4x - 5 < 0$?

2   Which graph represents the solution set of $x^2 - x - 12 < 0$?

3   What is the solution of the inequality $x^2 - x - 6 < 0$?
(1) -3 < x < -2   (3) 1 < x < 6
(2) -2 < x < 3   (4) -3 < x < 2

4   What is the solution set of the inequality $x^2 + 4x - 5 < 0$?
(1) {x| x < −1 or x > 5}   (3) {x|−1 < x < 5}
(2) {x| x < −5 or x > 1}   (4) {x|−5 < x < 1}

5   When a baseball is hit by a batter, the height of the ball, h(t), at time t, t ≥ 0, is determined by the equation $h(t) = -16t^2 + 64t + 4$. For which interval of time is the height of the ball greater than or equal to 52 feet?