

Name: _____

Math is Gold

Date: _____

Topic: Quadratic Functions**(id:quad_fn_up_down_B.1)****Title: Determine whether the graph opens up or down and whether it has a Maximum or Minimum. Circle your choice.**

1) $y = x^2 - 2x - 4$	Down / Up	Max / Min
2) $y = x^2 - 6x + 5$	Down / Up	Max / Min
3) $y = 4x - x^2 - 7$	Down / Up	Max / Min
4) $y = 14x - x^2 - 48$	Down / Up	Max / Min
5) $y = -2x^2 + 8x - 9$	Down / Up	Max / Min
6) $y = x^2 - 5$	Down / Up	Max / Min
7) $y = 3 - x^2$	Down / Up	Max / Min
8) $y = -2x^2 + 8x - 9$	Down / Up	Max / Min
9) $y = x^2 - 6x - 10$	Down / Up	Max / Min
10) $y = -x^2 + 20x - 100$	Down / Up	Max / Min

11) $y = x^2 - 14x$	Down / Up	Max / Min
12) $y = -2x + x^2$	Down / Up	Max / Min
13) $y = -x^2 - 4x$	Down / Up	Max / Min
14) $y = -x^2 - x$	Down / Up	Max / Min
15) $y = x^2 - 14x + 49$	Down / Up	Max / Min
16) $y = -16x - 4x^2 - 17$	Down / Up	Max / Min
17) $y = 2x^2 + 20x + 47$	Down / Up	Max / Min
18) $y = -x^2 + 16x - 55$	Down / Up	Max / Min
19) $y = 2x^2 + 4x - 5$	Down / Up	Max / Min
20) $y = -x^2 + 6x - 4$	Down / Up	Max / Min