

January 09 2013 3rd.gwb - 1/2 - Wed Jan 09 2013 09:57:58

January 09 2013 3rd.gwb - 2/2 - Wed Jan 09 2013 10:09:41

$$(1) \quad \begin{array}{c} y = 4x^{2} + 24x \\ y = 4(x^{2} + 6x + \frac{9}{2}) - 9(4) \\ y = 4(x + 3)^{2} - 36 \\ ye + x(-3, -36) \\ gx/s : x = -3 \\ gpens: up \\ \end{array}$$

$$(2) \quad \text{AFROSPACE NASA's KC135A aircraft flies in parabolic ares to simulate the weightlessness experienced by astronauts in space. The height h of the aircraft (in feet) t seconds after i begins its parabolic flight can be modeled by the other aircraft during this maneuver and when does it occur? We + ex(32.5, 34000) \\ (3) - 32.5 5 ex \\ A(3.09, 3.29) \\ (3) - 32.5 5 ex \\ (3) - 32.5 ex \\ (3) - 32.5$$