Example 2. No horizontal intercepts found Plot  $m(f) = -f^2 - 8f - 96$ Step 1. Compute vertex and plot single point: vertex = (-4, -80)m -5 5 -15 10 15 -100 -300 -400 -500 -600 Step 2. Compute m-intercept and plot single point: m-intercept=(0,-96)m -10-5 10 15 -15 m-intercept vertex -200 -300 -400 -500 -600 Step 3. Compute m-intercept reflected against vertex, reflection = (-8, -96)m -15 reflection m-intercept vertex -200 -300-400 -500 -600 Step 4. connect the above computed points: -15 -10 10 15 reflection m-intercept

-300

-400 -500 -600 Step 5. Extend the parabola beyond the range of intercepts -15 -10 -5 5 10 15

reflection m-intercept vertex -200

-300 -400

-500

-600