GRTR-2 Graphing Sine and Cosine Functions
(Complete all parts for M, complete sketch of graph for P) Given $f(x) = 3 - \frac{3}{2}\sin 2\left(\frac{x}{2} + \pi\right)$

a) State the amplitude

b) State the period

c) State the phase shift

d) State the vertical shift

e) State the max and min values

f) Sketch the graph on the interval $[0, 2\pi]$