Mountain Climber

9) (New book) p.172 #67b,e.

8) (New book) p.171 #66b.

7) (New book) p.170 #51.

6) Write an equation for the quadratic function whose graph contains a vertex of $(-2,-5)$ and a point $(-4,27)$.

5) Find the vertex & axis of symmetry if $h(x) = 3x^2 + 5x - 4$. Place in vertex form.

4) Find the vertex and axis of symmetry if $g(x) = -3(x+2)^2 - 1$

3) Find the equation of the linear function if $f(1) = 2$ & $f(5) = 7$.

2) Find y if the slope of a line is $-\frac{2}{3}$ through the points $(5,-1)$ & $(2,y)$.

1) State the degree and leading coefficient of $k(x) = 4x - 5x^2$