

**Mountain Climber**

9) p.178 #66b,e.

8) p.178 #65b.

7) p.177 #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  $k(x) = 4x - 5x^2$

