## Quiz 2

Show all your work. Reasonable supporting work must be shown for any partial credit.

1. Consider the graph of $f$ shown on the right.
(a) [1] Find $(f(f(-2))$
(b) [3] Given that $f$ is comprised of a line \& a parabola, find the piece-wise defined algebraic rule of $f$.

(c) [3] Graph the function $g$ defined by $g(x)=f(x+1)+2$
2. The functions below (approximately) return the median annual income (reported in thousands of dollars) of Americans since 1960 for white Americans (w) and latinx Americans (l).
(a) [1] Let $x$ be the years since 1960, then $w(x)=.566 x+40.738$, and $l(x)=.211 x+31.886$.
Identify which line is $w$ and which line is $l$.
(b) [2] Which population is seeing a larger increase in their median
 annual income? Justify your answer.
