Let $f(x) = x^3 - 2x$, $g(x) = x + 2$, and $k(x) = 2x$

1. Let $h(x) = k(\ f(x)\ )$
   (a) Give the formula for $h(x)$
   (b) Plot $y = h(x)$ and $y = f(x)$ on the same set of axes
   (c) How is the graph of $y = h(x)$ related to the graph of $y = f(x)$?

2. Repeat #2 for $h(x) = f(\ k(x)\ )$

3. Explain how the graphs are related to the graph of $y = f(x)$
   (a) $y = f(x) + a$
   (b) $y = f(x + a)$
   (c) $y = a\, f(x)$
   (d) $y = f(a\, x)$