

## F-LE Comparing Graphs of Functions

## **Task**

a. How do the values of the three functions f(x) = 2x,  $g(x) = x^2$  and  $h(x) = 2^x$  compare for large positive and negative values of x?

b. Explain your findings from part (a) for f and g by studying the quotients  $\frac{g(x)}{f(x)}$ .

c. Explain your findings from part (a) for g and h by studying  $\frac{g(x+1)}{g(x)}$  and  $\frac{h(x+1)}{h(x)}$  for different values of x.



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