

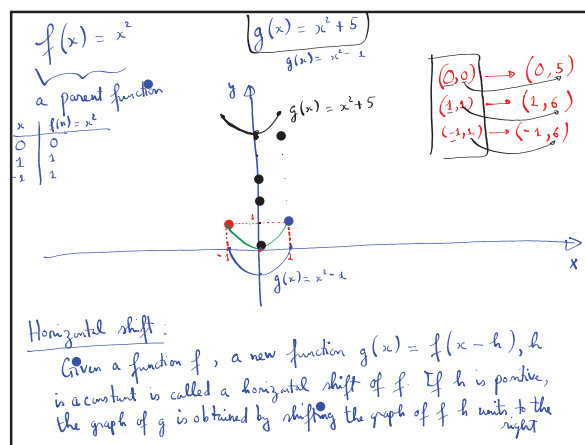
3.5 Transformation of functions

- Graph functions using vertical and horizontal shifts.
- Graph functions using reflections about the axes and stretches and compressions
- Odd and even functions

Vertical and Horizontal Shifts

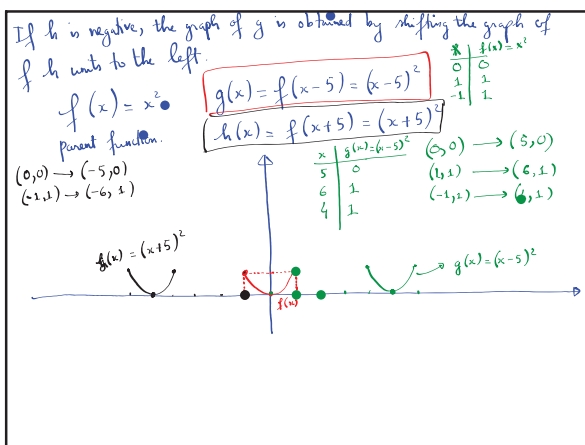
Given a function $f(x)$, a new function $g(x) = f(x) + k$, k is a constant is called a vertical shift of f .

If k is positive, the graph of g is obtained from the graph of f by shifting the graph of f up k units.
If k is negative, the graph of g is obtained by shifting the graph of f down k units.

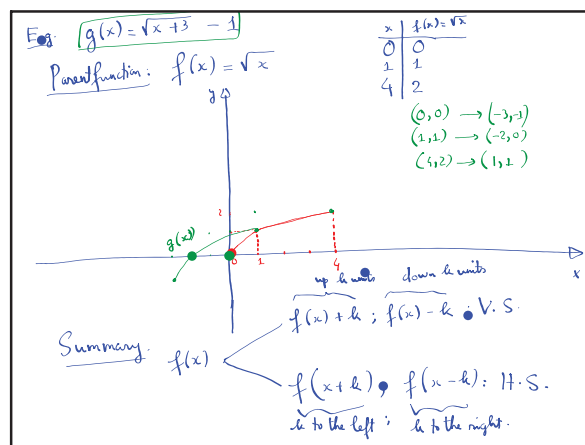


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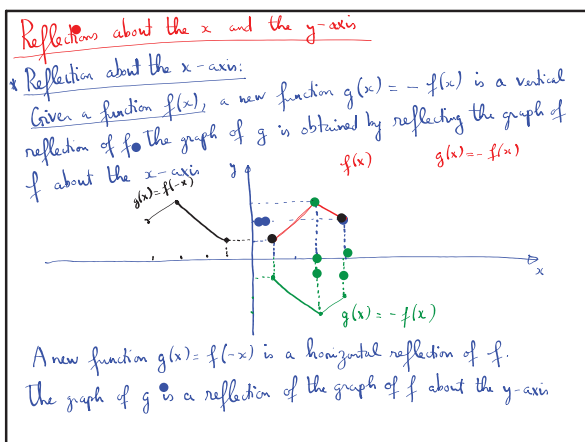
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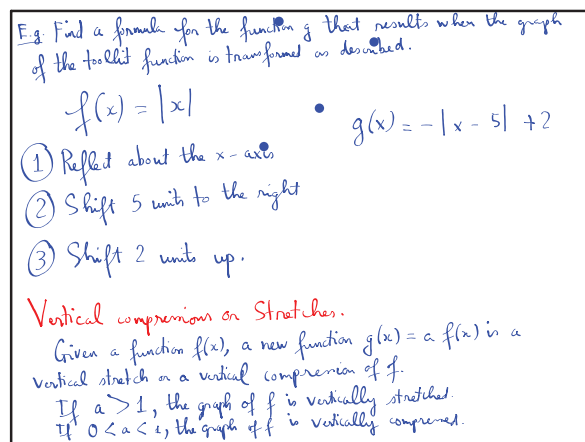
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