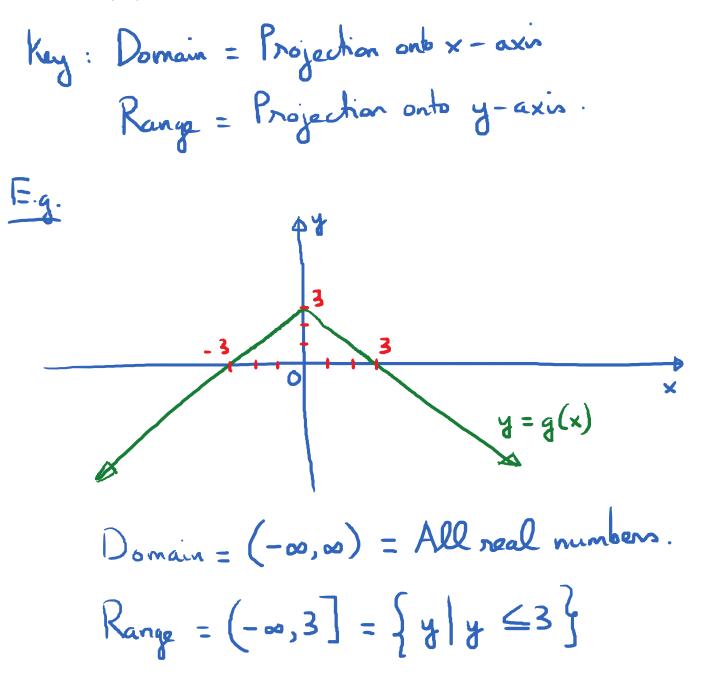
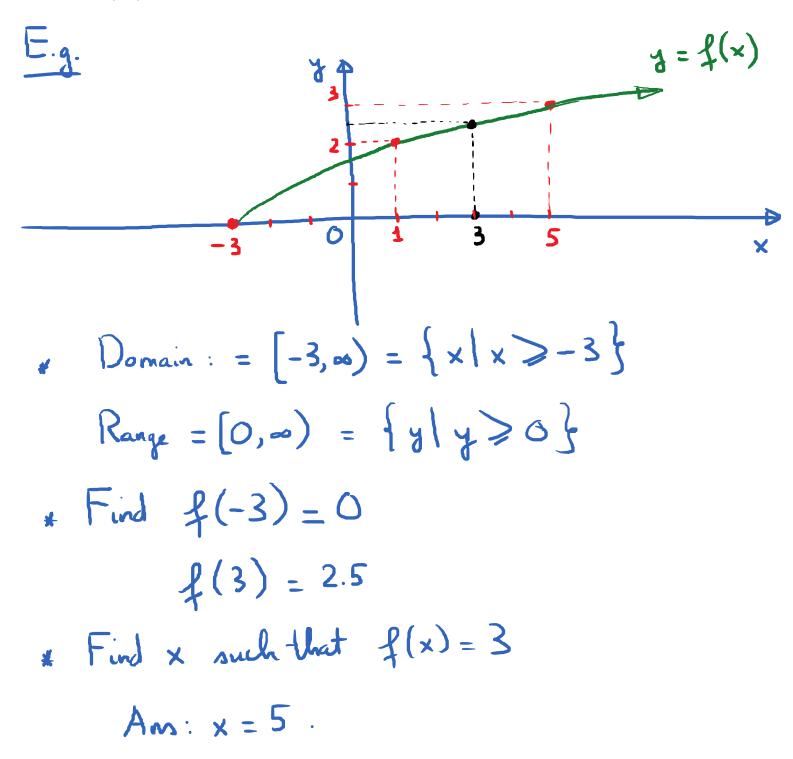
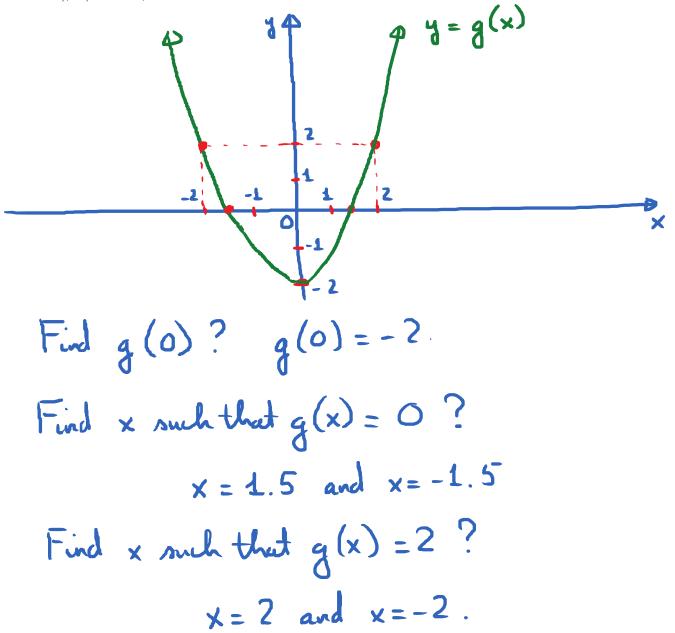


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(2) Find domain given formulas

E.g. $f(x) = \frac{5+x}{x}$ Domain for f is the set of all real numbers except for x=4 because x=4 is the only value of x for which the denominator is O and we cannot divide by O.

In interval notation: (-00,4)U(4,00) Idea: To find the domain of a function with a denomination, we first set the denomination = 0 and then solve for x.

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Domain = all real numbers except for the
values of x that we just solved for.
E.g.
$$g(x) = \frac{8x-1}{2x+3}$$
. Find domain.
 $2x+3 = 0 \longrightarrow 2x = -3 - (x = -\frac{3}{2})$.
Domain = $\left(-\infty, -\frac{3}{2}\right) \cup \left(-\frac{3}{2}, \infty\right)$