



$$4) f: \mathbb{R} \rightarrow \mathbb{R} \quad f(x) = \begin{cases} 2x^2 - 1 & x \leq 1 \\ |x-2| & x > 1 \end{cases}$$

$$2x^2 - 1 = 0$$

$$x^2 = \frac{1}{2}$$

$$x = \pm \sqrt{\frac{1}{2}}$$

