

Suppose $f(x) = \sqrt{x^2 - 5x - 6}$.

- Find $f(7)$
- Find $f(2x+1)$
- Determine the domain of f ?

- $f(7) = \sqrt{49 - 35 - 6} = \sqrt{8} = 2\sqrt{2} = 2.83$

- $f(2x+1) = \sqrt{(2x+1)^2 - 5(2x+1) - 6} = \sqrt{4x^2 - 6x - 10}$

- The domain of f consists of those points for which $x^2 - 5x - 6 \geq 0$.

$$x^2 - 5x - 6 \geq 0$$

$$(x-6)(x+1) \geq 0$$



Domain: $x \leq -1$ or $x \geq 6$