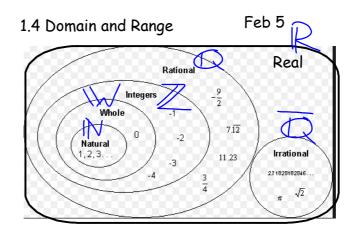
Number

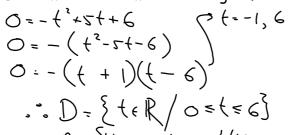
Sets

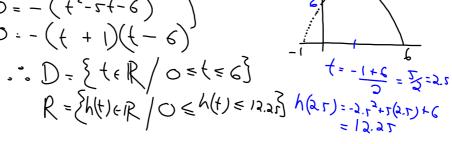


Realistic restrictions

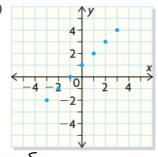
A rock is tossed off of a building according to the function $h(t) = -t^2 + 5t + 6$ with h in metres and t in seconds.

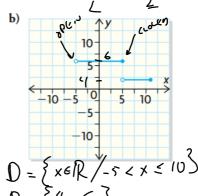
Determine the domain and range of the problem.

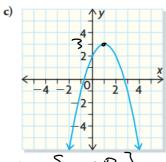




Determine domain and range of each relation



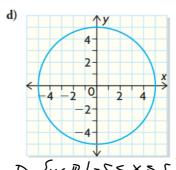




$$D = \left\{ x \in \mathbb{R} \middle| y \leq 3 \right\}$$

$$P = \left\{ y \in \mathbb{R} \middle| y \leq 3 \right\}$$

$$P = \left\{ y \in \mathbb{R} \middle| -r \leq y \leq r \right\}$$

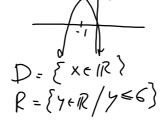


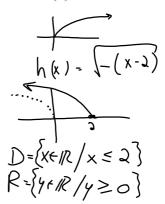
Determine the domain and range of each function.

a)
$$f(x) = 2x - 3$$

a)
$$f(x) = 2x - 3$$
 b) $g(x) = -3(x + 1)^2 + 6$

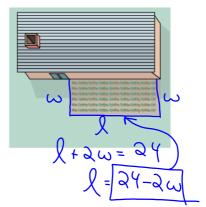
c)
$$h(x) = \sqrt{2 - x}$$

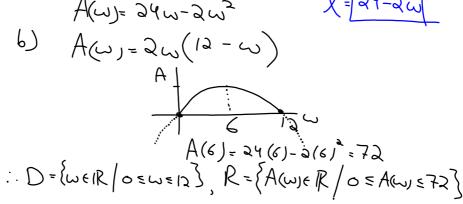




Vitaly and Sherry have 24 m of fencing to enclose a rectangular garden at the back of their house.

- a) Express the area of the garden as a function of its width.
- b) Determine the domain and range of the area function.





Homework: p.35#1-5,7,9,11-14