

Analysis of Functions

Domain
↳ Input
X-values

Inequalities
<, >, ≤, ≥

Interval
Notation

Open
<, >

Closed
≤, ≥

() []

(] [)

○ - parenthesis

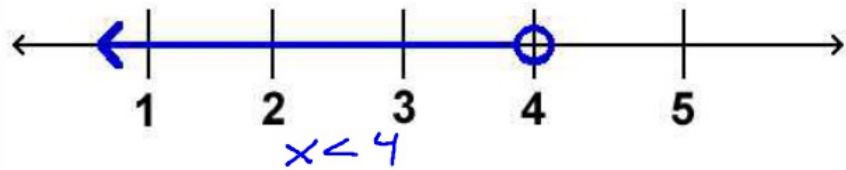
● - Bracket

∞, -∞ → para

Determine the domain for each number line given below

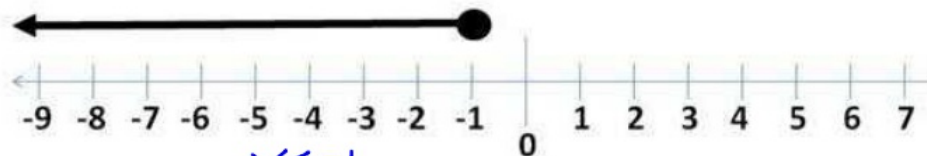
○ - not included

● - Included



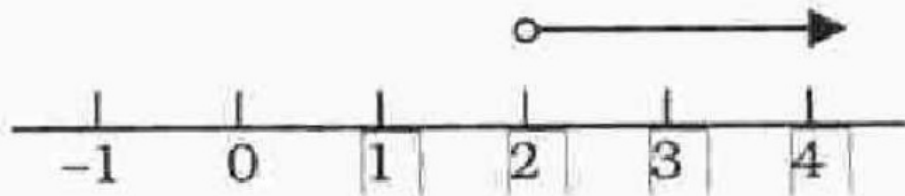
$$x < 4$$

$$(-\infty, 4)$$



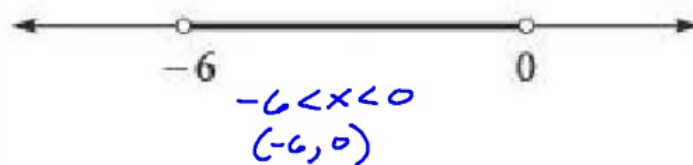
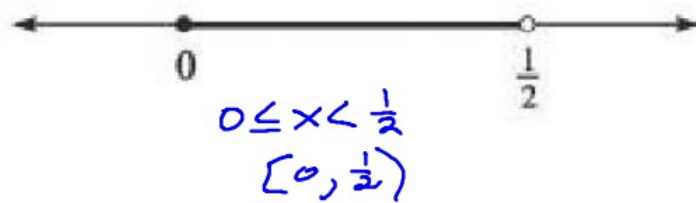
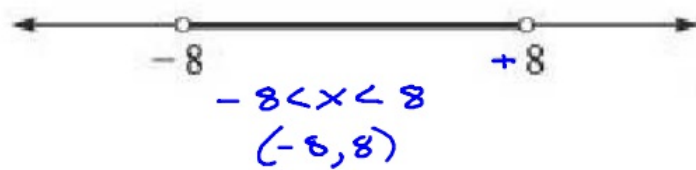
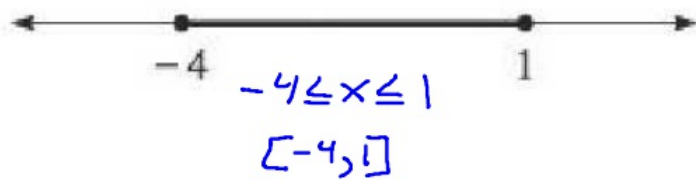
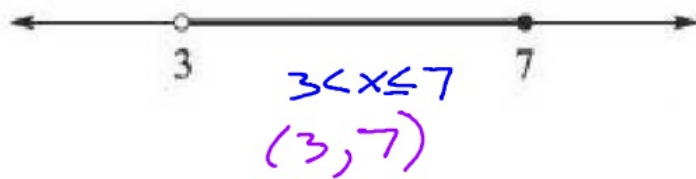
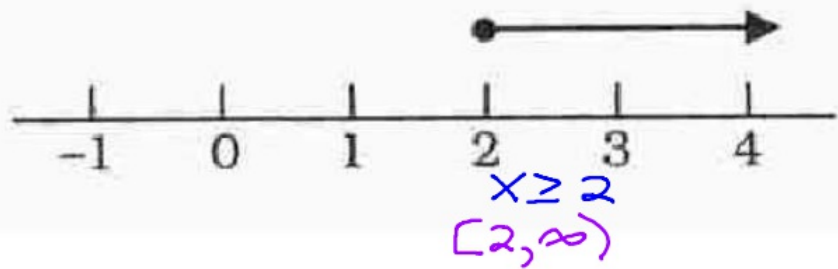
$$x \leq -1$$

$$(-\infty, -1]$$



$$x > 2$$

$$(2, \infty)$$

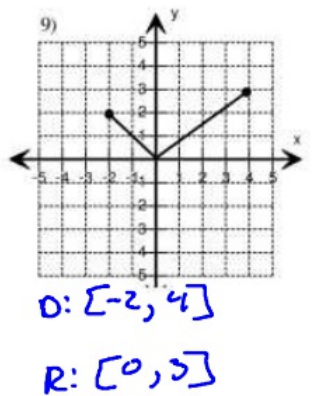
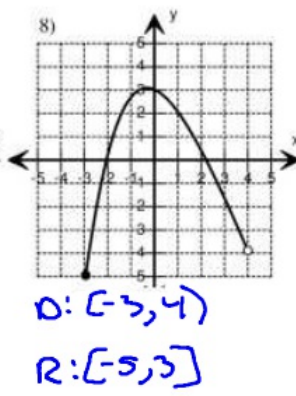
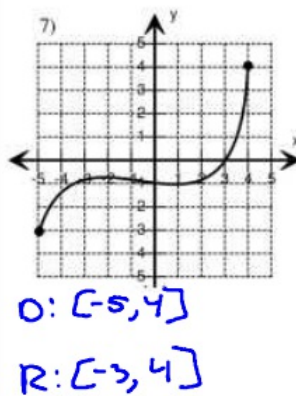
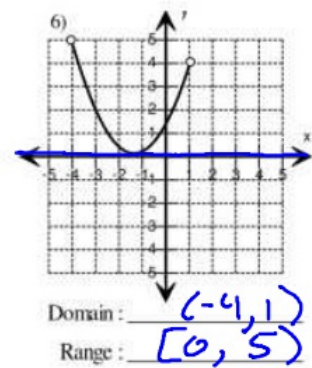
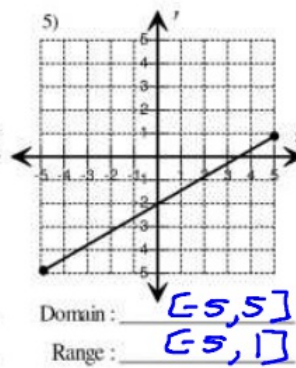
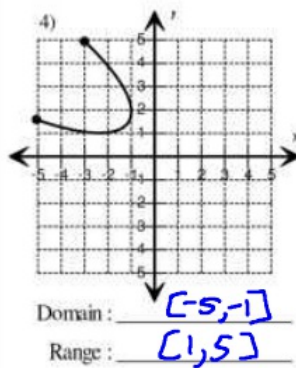
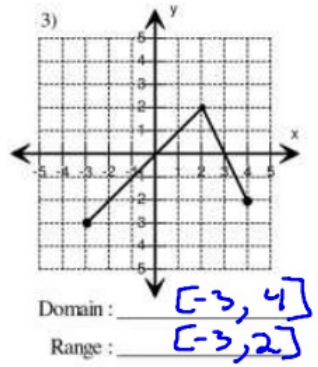
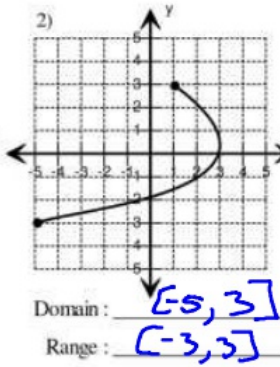
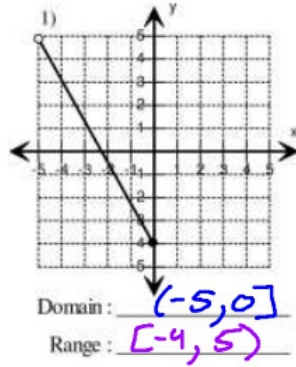


Domain
X-values

Range
Y-values

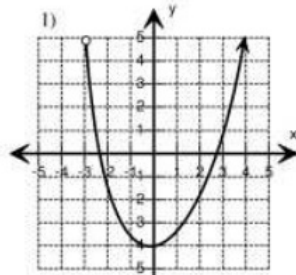
Domain and Range

Find the Domain and Range for each graph.

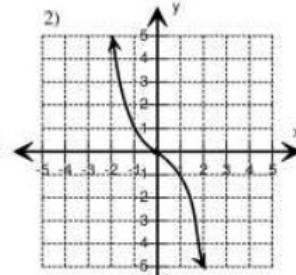


Domain and Range

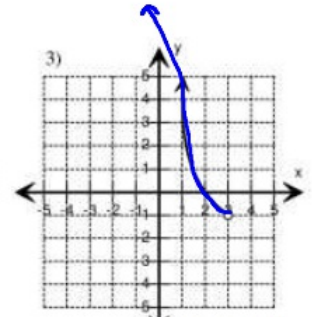
Find the Domain and Range for each graph.



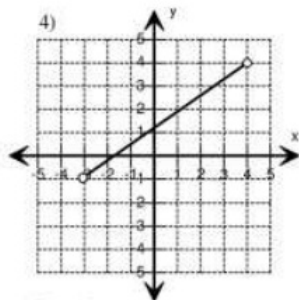
Domain : $(-3, \infty)$
Range : $[-4, \infty)$



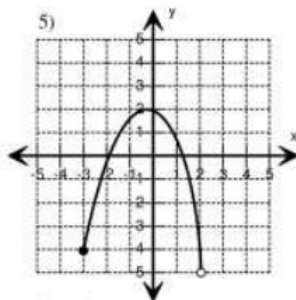
Domain : $(-\infty, 2)$
Range : $(-\infty, \infty)$



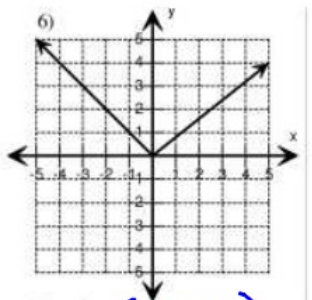
Domain : $(-\infty, 3)$
Range : $(-1, \infty)$



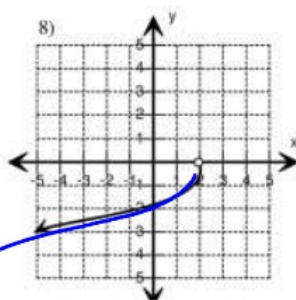
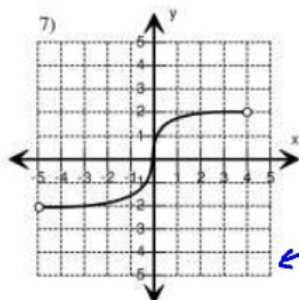
Domain : _____
Range : _____



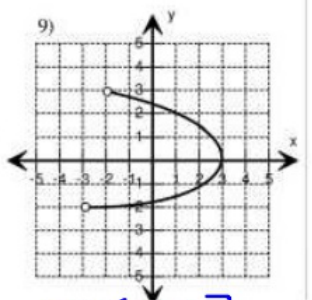
Domain : _____
Range : _____



Domain : $(-\infty, 2)$
Range : $[0, \infty)$



D: $(-\infty, 2)$
R: $(-\infty, 0)$



D: $(-3, 3]$
R: $(-2, 3)$