

## Sheet ( 2 )

### **1- Sketch and find domain and rang**

a)

- $Y = x^2 + 4x$
- $Y = x^2 - 2x + 2$
- $Y = 6x - 10 - x^2$
- $Y = 2x^2 - 8x + 9$

b)

- $Y = \frac{4}{x-3}$
- $Y = \frac{3x+6}{x+3}$
- $Y - 3 = \frac{1}{x+4}$

c)

- $Y = -2\sqrt{x+1}$
- $Y = -2\sqrt{x}$
- $Y = 2\sqrt{x+2} - 3$
- $Y = \sqrt{x} + 2$
- $Y = \sqrt{x} - 4$

d)

- $Y = |x - 2| - 4$
- $Y = |x + 1|$
- $Y = |x| + 2$
- $Y = |x + 1| + 3$
- $Y = -|x - 2| + 4$
- $Y = |x - 1| - 1$