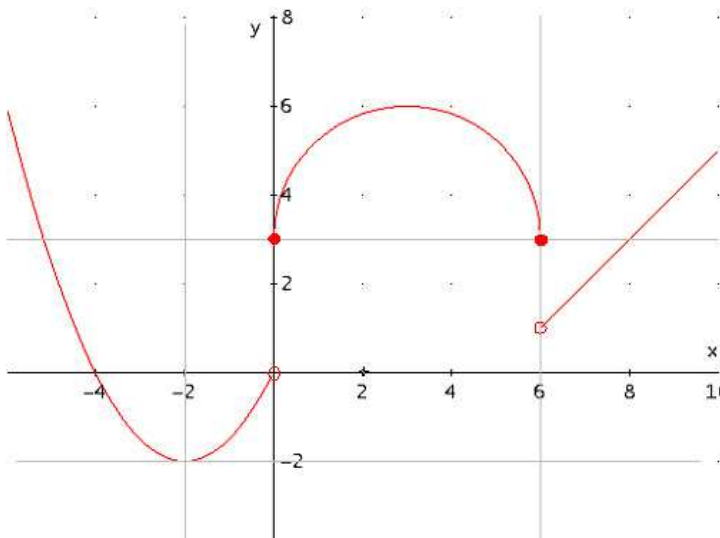


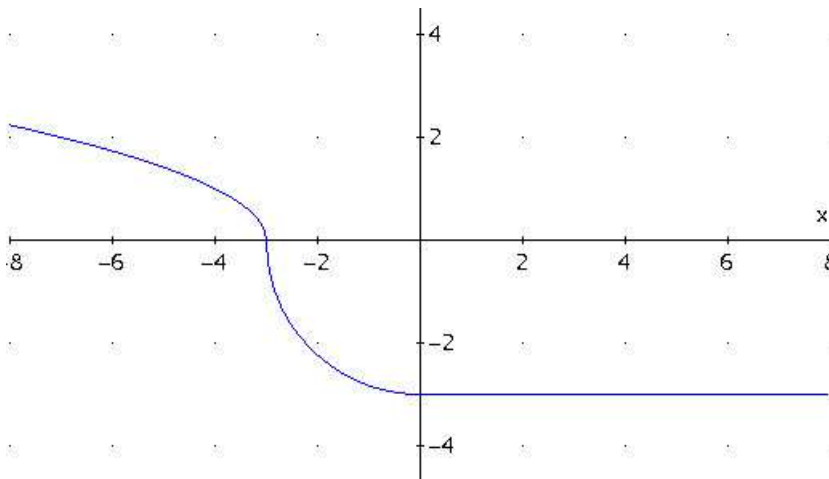
Trova l'equazione delle curve rappresentate nei seguenti grafici:

1.



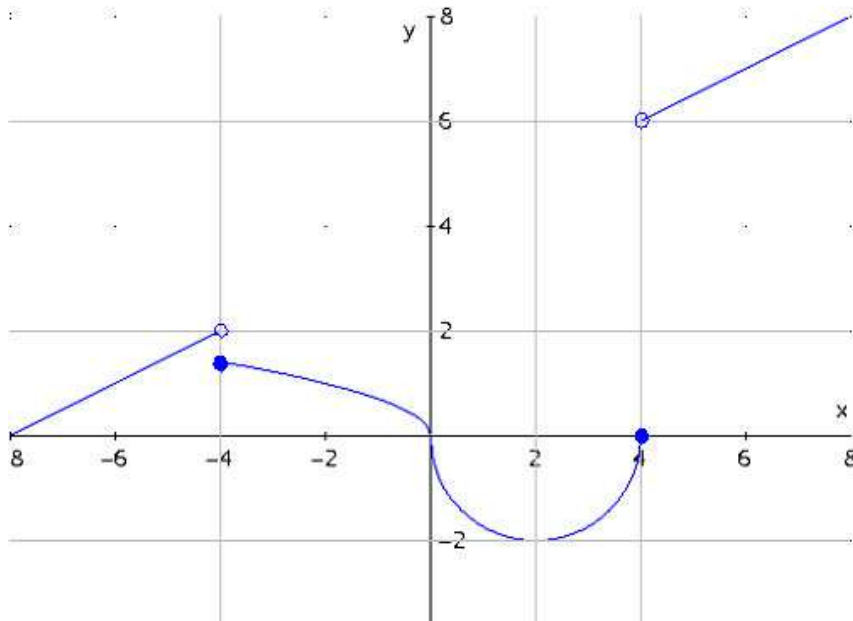
$$y = \begin{cases} \frac{1}{2}x^2 + 2x & x < 0 \\ 3 + \sqrt{6x - x^2} & 0 \leq x \leq 6 \\ x - 5 & x > 6 \end{cases}$$

2.



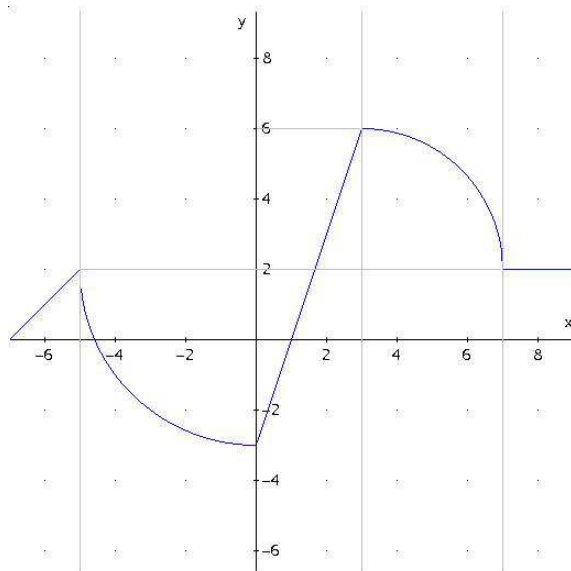
$$y = \begin{cases} \sqrt{-x-3} & x < -3 \\ -\sqrt{9-x^2} & -3 \leq x \leq 0 \\ -3 & x > 0 \end{cases}$$

3.



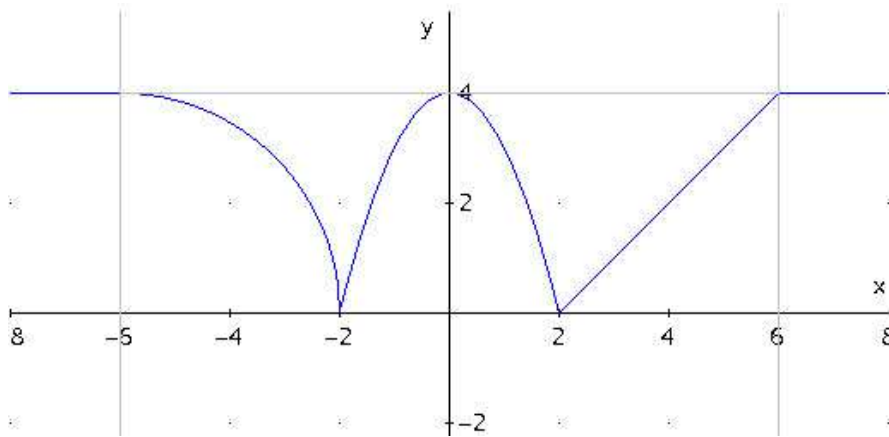
$$y = \begin{cases} \sqrt{-\frac{x}{2}} & -4 \leq x \leq 0 \\ -\sqrt{4x - x^2} & 0 < x \leq 4 \\ \frac{1}{2}x + 4 & x < -4 \vee x > 4 \end{cases}$$

4.



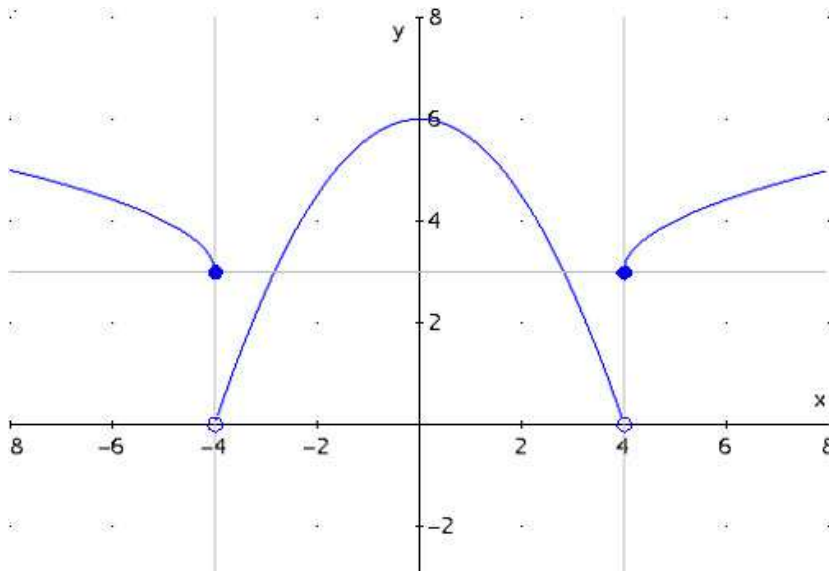
$$y = \begin{cases} x + 7 & x < -5 \\ 2 - \sqrt{25 - x^2} & -5 \leq x \leq 0 \\ 3x - 3 & 0 < x < 3 \\ 2 + \sqrt{6x - x^2 + 7} & 3 \leq x \leq 7 \\ 2 & x > 7 \end{cases}$$

5.



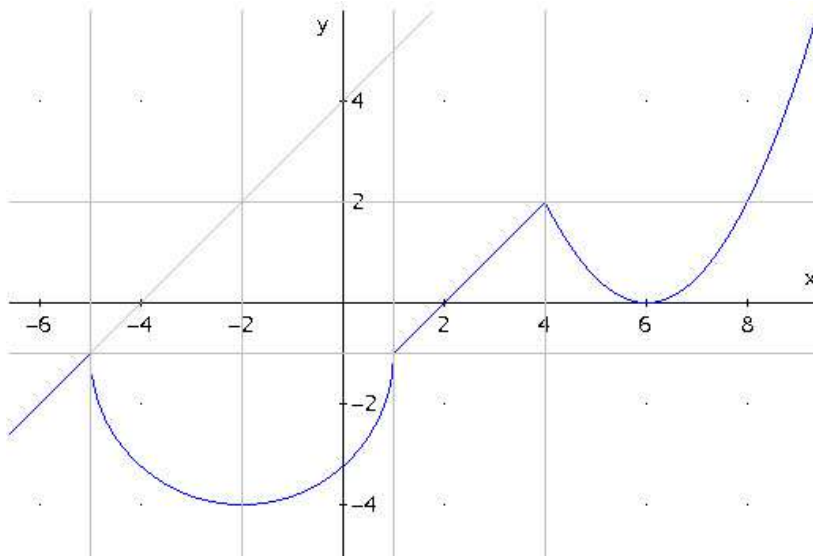
$$y = \begin{cases} \sqrt{-12x - x^2 - 20} & -6 \leq x \leq -2 \\ 4 - x^2 & -2 < x < 2 \\ x - 2 & 2 \leq x \leq 6 \\ 4 & x < -6 \vee x > 6 \end{cases}$$

6.



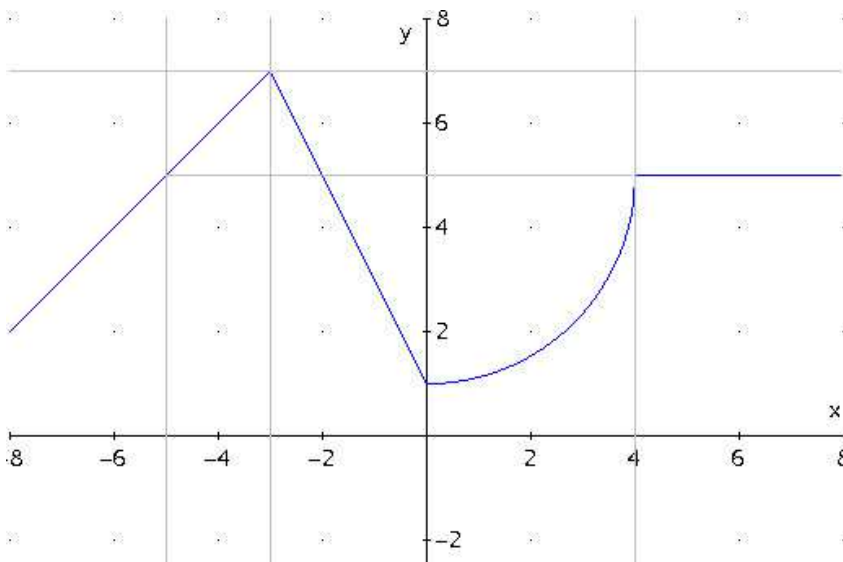
$$y = \begin{cases} 3 + \sqrt{-x - 4} & x \leq -4 \\ -\frac{3}{8}x^2 + 6 & -4 < x < 4 \\ 3 + \sqrt{x - 4} & x \geq 4 \end{cases}$$

7.



$$y = \begin{cases} x + 4 & x < -5 \\ -1 - \sqrt{5 - x^2 - 4x} & -5 \leq x \leq 1 \\ x - 2 & 1 < x < 4 \\ \frac{1}{2}x^2 - 6x + 18 & x \geq 4 \end{cases}$$

8.



$$y = \begin{cases} x + 10 & x < -3 \\ -2x + 1 & -3 \leq x \leq 0 \\ 5 - \sqrt{16 - x^2} & 0 < x < 4 \\ 5 & x \geq 4 \end{cases}$$