

Solve these equations

$$\textcircled{1} \quad |3-x| = |x|^2 - 3$$

$$\textcircled{2} \quad -|3-x^2| = |x-2| - 5$$

$$\textcircled{3} \quad 5 - (|x| - 2)^2 = |x^2 - 5|$$

$$\textcircled{4} \quad |7 - (|x| - 2)^2| = |x^3| - 1$$

$$Z = -3$$

$$A = -4$$

$$E = -1.275 \text{ (3dp)}$$

$$Y = 2$$

$$O = 2.702 \text{ (3dp)}$$

$$T = -7$$

$$P = -3$$

$$G = -2$$

$$K = 10$$

$$H = -1$$

$$B = -2.702 \text{ (3dp)}$$

$$P = 0$$

$$S = 2$$

$$D = -6$$

$$S = 3$$

$$A = -1$$

$$C = 5$$

$$U = -11$$

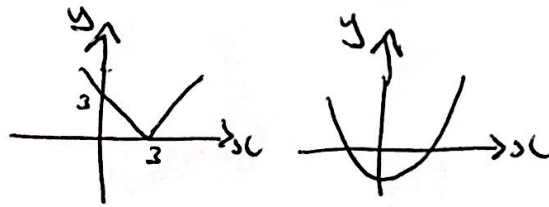
$$Y = 1$$

$$R = 7$$

$$E = -2$$

write down the correct answers, in order to find an 11 letter word which is one of the four processes of a vertebrate. (in each question, write the smallest number first)

$$y = |3 - x|$$

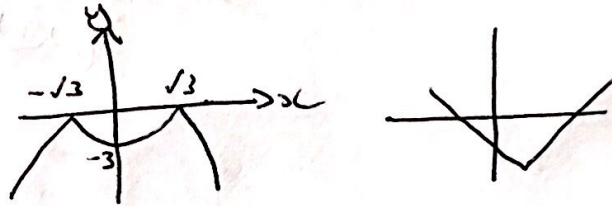


$$y = |x|^2 - 3$$

$$x = -3, 2 \quad (y = 6, 1)$$

$$y = -|3 - x^2|$$

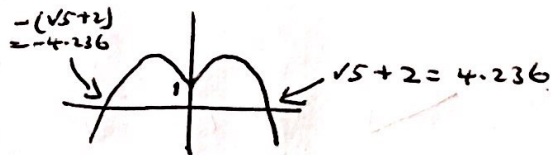
$$y = |x - 2| - 5$$



$$x = 2 - \sqrt{2}, 0, -1, -2$$

$$(y = -4.298, -3, -2, -1)$$

$$y = 5 - (|x - 2|)^2$$



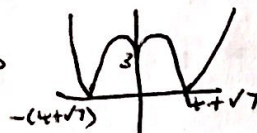
$$y = |x^2 - 5|$$



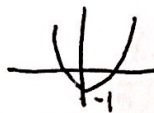
$$x = -3, -1, 1, 3$$

$$y = 4, 4, 4, 4$$

$$y = |7 - (|x - 2|)^2|$$



$$y = |x^3| - 1$$



$$x = 2, -2$$

$$y = 7, 7$$

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