

#28

$$y = x^3 - 1$$

Solution: let's pick values for x , find y and see what are we getting...

x	y
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$$0 \quad -1$$

$$y = 0 - 1 = -1$$

$$1 \quad 0$$

$$y = 1 - 1 = 0$$

$$-1 \quad -2$$

$$y = -1 - 1 = -2$$

$$2 \quad 7$$

$$y = 2^3 - 1 = 7$$

$$-2 \quad -9$$

$$y = (-2)^3 - 1 = -9$$

let's see what happens around $x=0$

$$\frac{1}{2} \quad -\frac{7}{8}$$

$$y = \left(\frac{1}{2}\right)^3 - 1 = \frac{1}{8} - 1 = -\frac{7}{8}$$

$$-\frac{1}{2} \quad -1\frac{1}{8}$$

$$y = \left(-\frac{1}{2}\right)^3 - 1 = -\frac{1}{8} - 1 = -\frac{9}{8} = -1\frac{1}{8}$$

