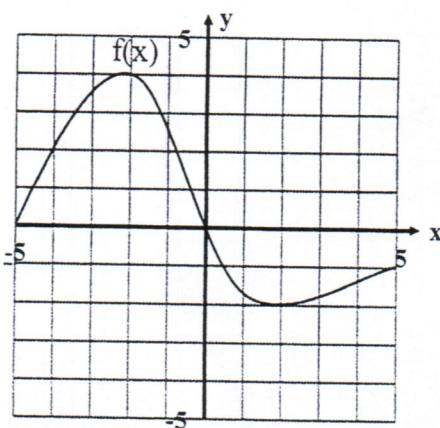


3. Given this graph of the function $f(x)$:

Wkst #3 (part 1)



Find:

- a. $f(-4) =$
- b. $f(0) =$
- c. $f(3) =$
- d. $f(-5) =$
- e. x when $f(x) = 2$
- f. x when $f(x) = 0$

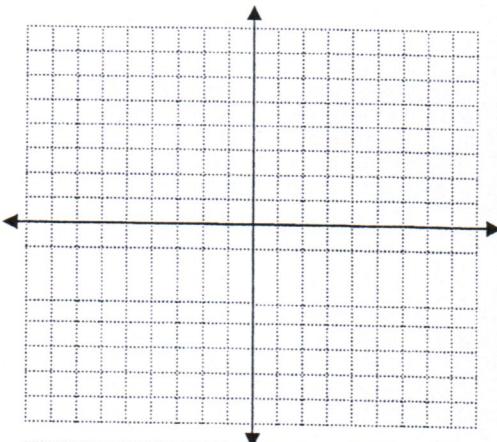
4. Find an equation of a linear function given $h(1) = 6$ and $h(4) = -3$.

APPLICATION

5. Swine flu is attacking Porkopolis. The function below determines how many people have swine where t = time in days and S = the number of people in thousands.

$$S(t) = 9t - 4$$

- a. Find $S(4)$.
- b. What does $S(4)$ mean?
- c. Find t when $S(t) = 23$.
- d. What does $S(t) = 23$ mean?
- e. Graph the function



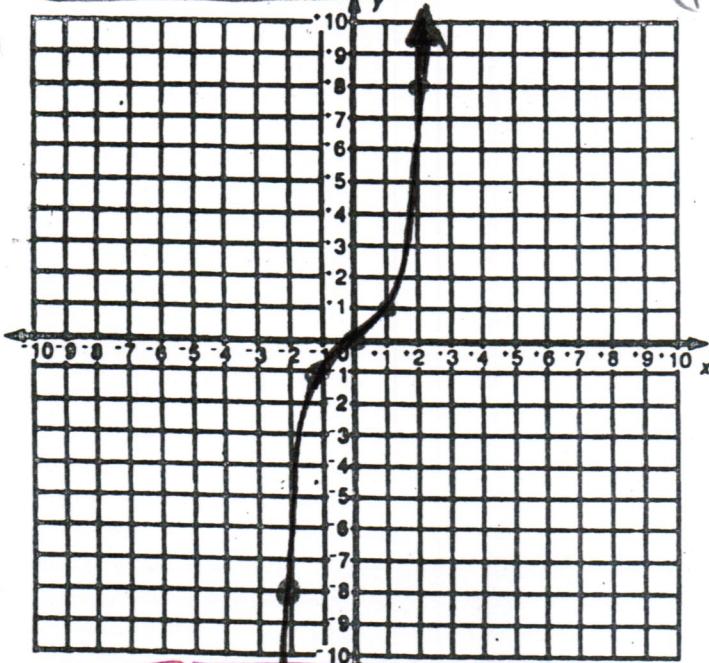
Here is parent function for

Example: $f(x) = x^3$

WKST #3
(part 2)

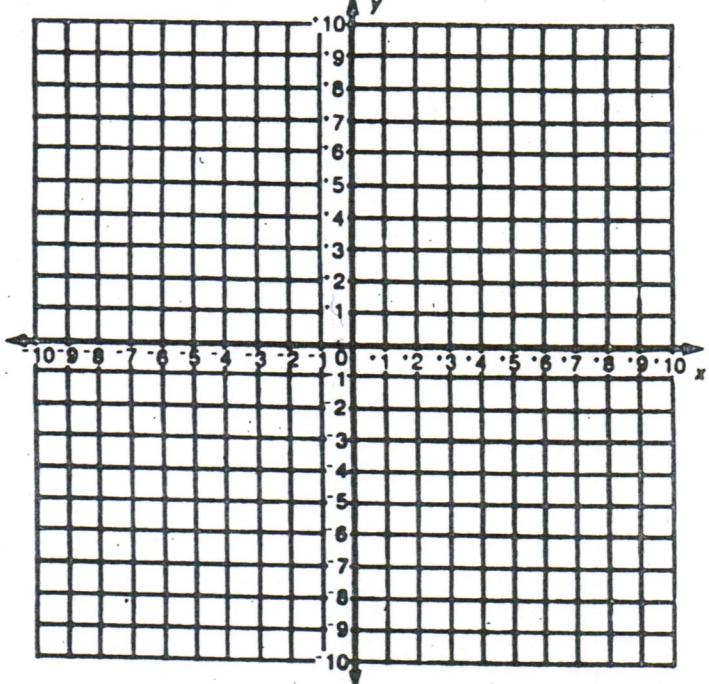
Graph:

$$f(x) = x^3 + 2$$

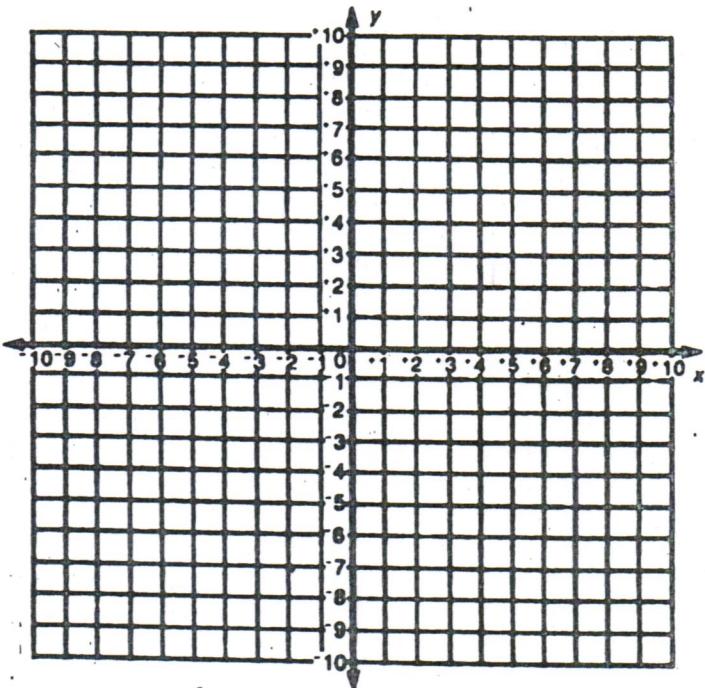
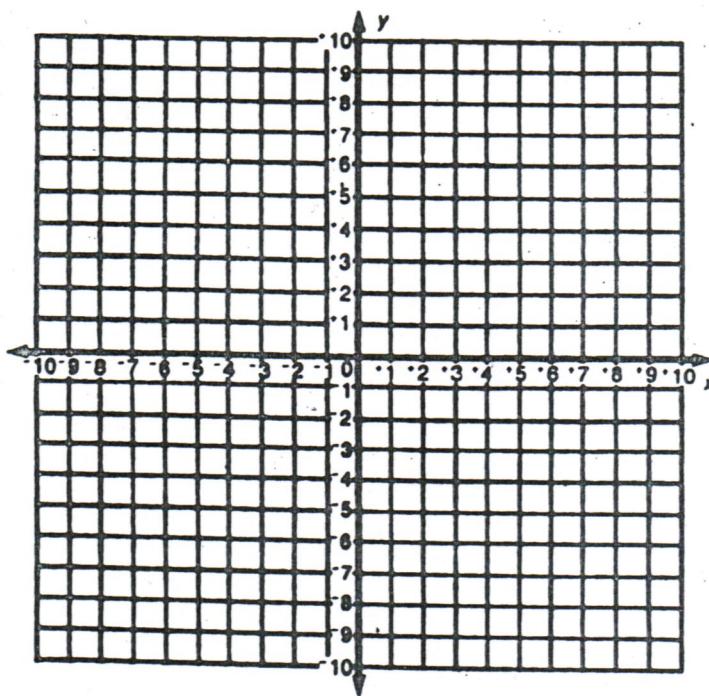


Parent
↳ no flips/shifts D: \mathbb{R}
 R: \mathbb{R}

$$\text{Graph: } f(x) = (x-3)^3$$



$$\text{Graph: } f(x) = (x-3)^3 + 2$$

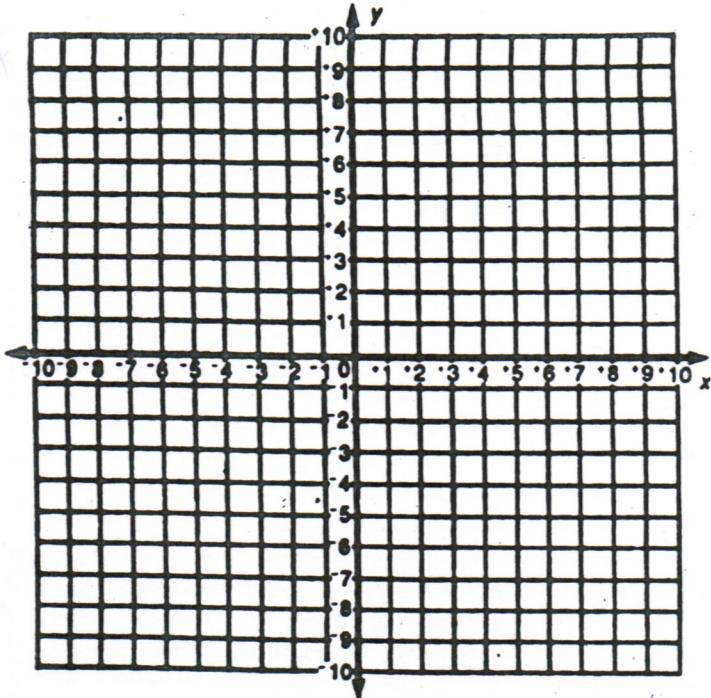


DIRECTIONS: ★ GRAPH EACH

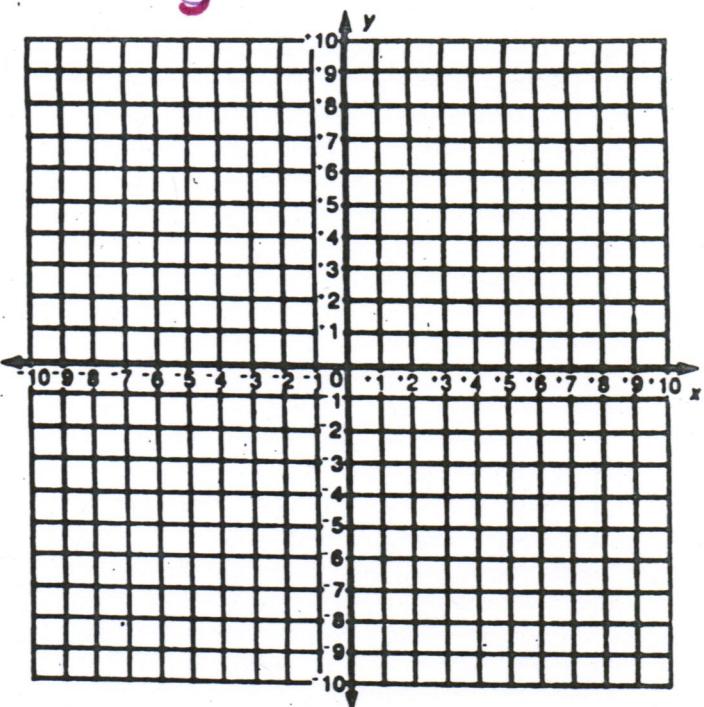
★ STATE ALL FLIPS & SHIFTS ON EACH GRAPH

★ STATE THE DOMAIN AND RANGE FOR EACH GRAPH

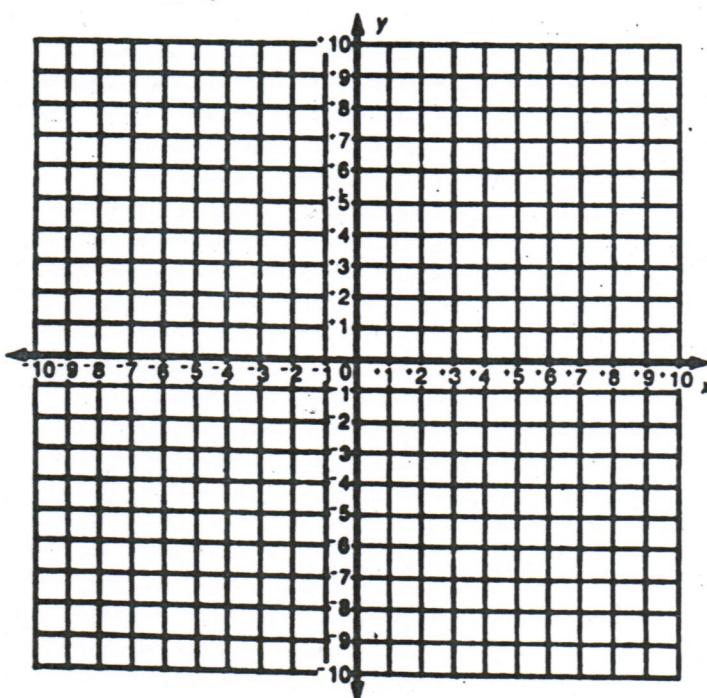
$$y = |x - 4| - 3$$



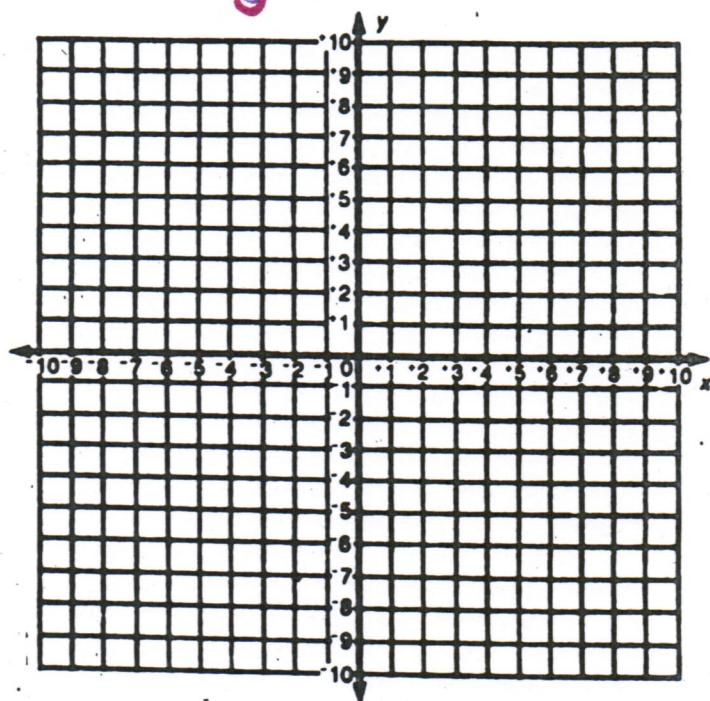
$$y = \sqrt{x + 5} + 2$$



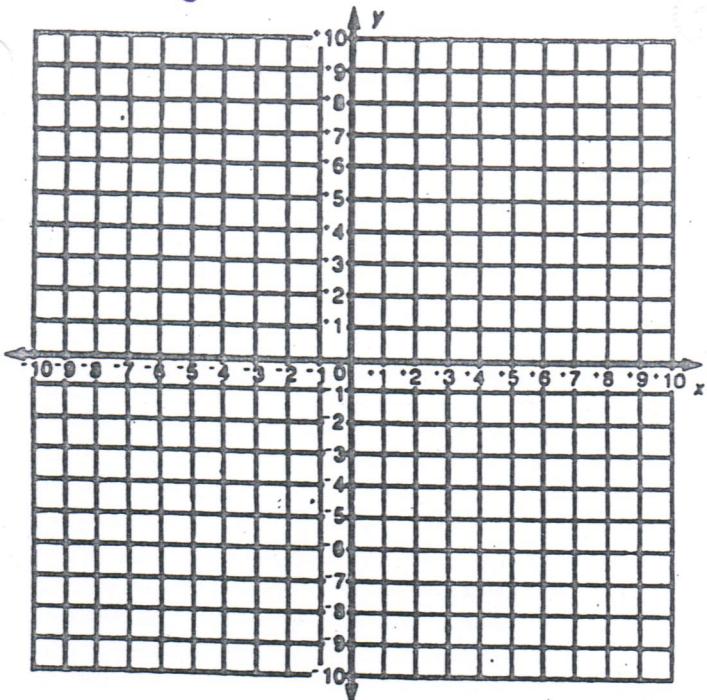
$$y = (x - 1)^2 + 3$$



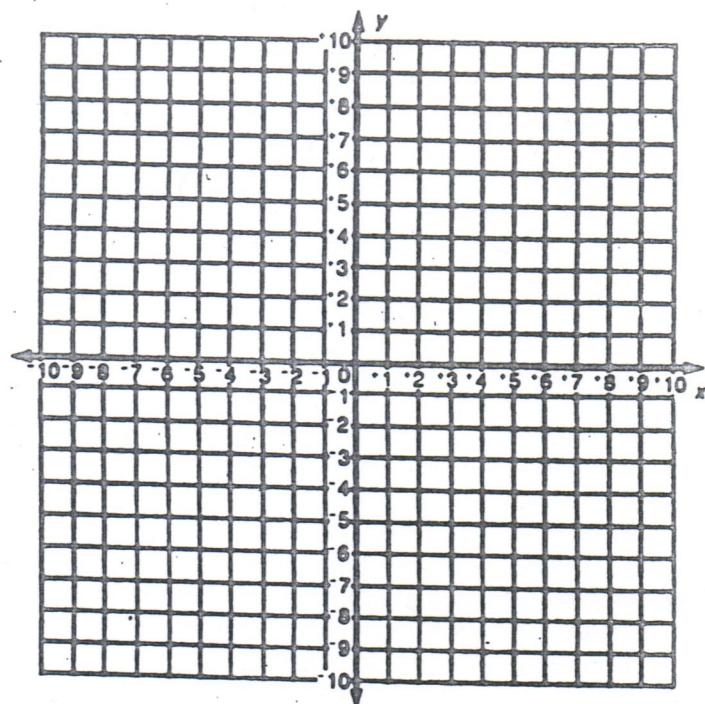
$$y = (x + 3)^3 - 4$$



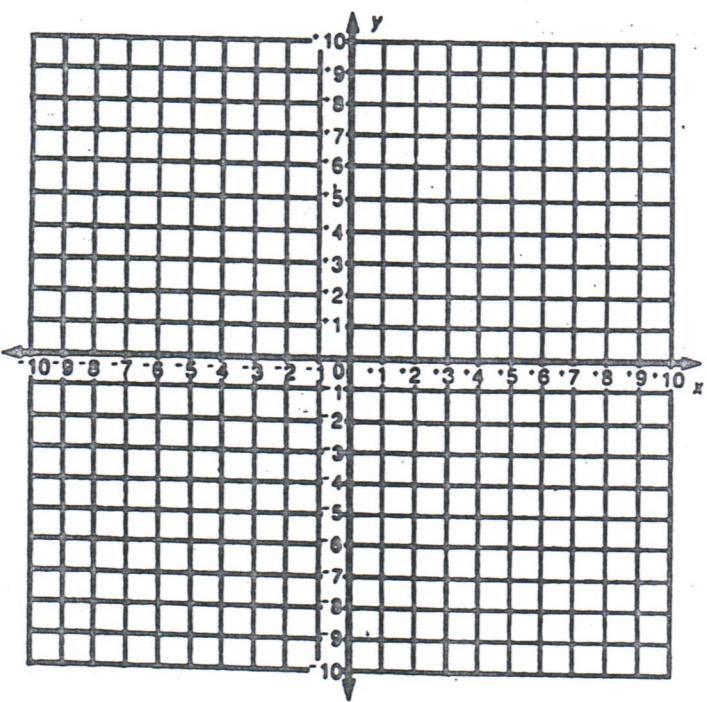
$$y = |x + 2| - 3$$



$$y = \sqrt{x-4} + 2$$



$$y = (x-3)^3 - 4$$



$$y = (x+2)^2 + 2$$

