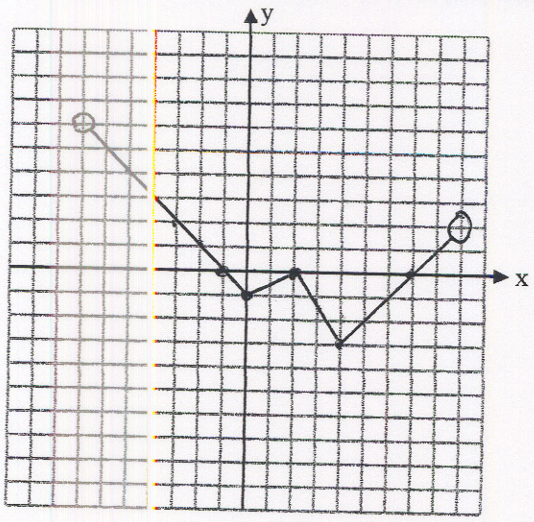
Restricted Domains
(Non-calculator)

Name _____ Date _____ Period _____

Use the graph of each function to find the indicated information.



domain _____

range _____

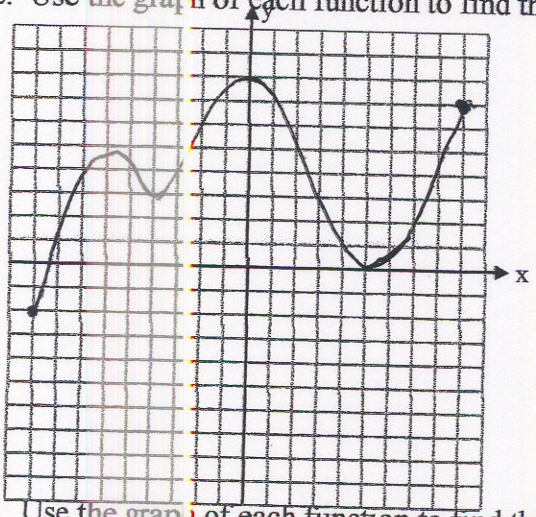
$f(4)$ _____

zeros _____

intervals where f is increasing:

_____

2. Use the graph of each function to find the indicated information.



domain _____

range _____

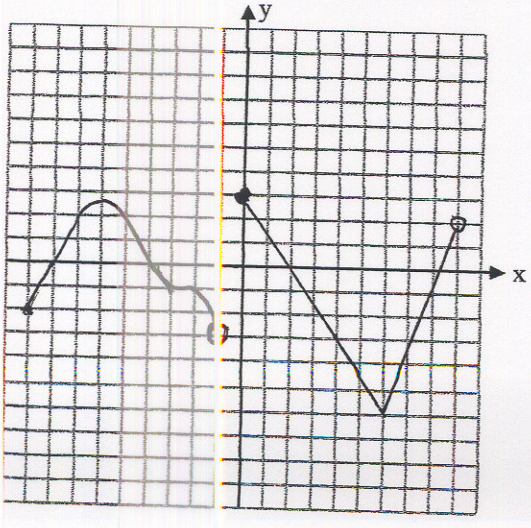
$f(0)$ _____

zeros _____

intervals where f is decreasing:

_____

3. Use the graph of each function to find the indicated information.



domain _____

range _____

zeros _____

intervals where f is increasing:

_____

intervals where f is decreasing:

_____

Find all values **not** in the domain of the given function. Justify your answer.

4. $h(x) = \sqrt{x - 2}$

5. $f(x) = \dfrac{x - 8}{x^2 - 16}$

6. $r(x) = \sqrt{x^2 - 16}$

7. $w(x) = \sqrt{16 - x^2}$

8. $g(x) = \dfrac{\sqrt{x - 3}}{x + 6}$

9. $t(x) = \dfrac{x + 2}{x^2 - 16}$

10. $k(x) = \dfrac{10}{\sqrt{16 - x^2}}$

11. $d(x) = \dfrac{4}{|3x - 7|}$

12. $n(x) = \dfrac{x + 5}{\sqrt{x - 2}}$