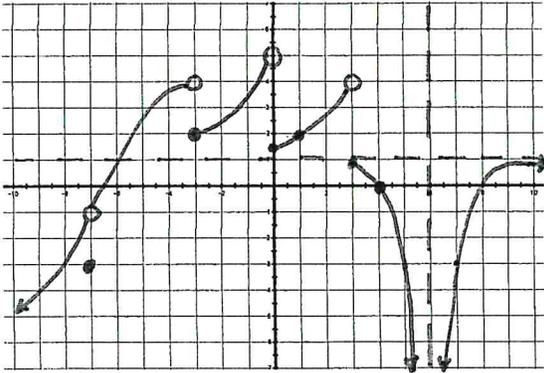
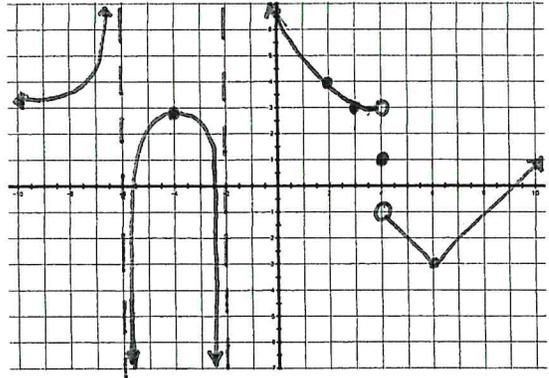


$f(x)$  $g(x)$ 

1. Where is $f(x)$ discontinuous? What kind of discontinuity?

$x = -7$ REMOVABLE

$x = 3$ JUMP N.R.

$x = -3$ JUMP N.R.

$x = 0$ JUMP N.R.

$x = 0$ JUMP N.R.

2. Where is $g(x)$ discontinuous? What kind of discontinuity?

$x = -6$ INFINITE N.R.

$x = 4$ JUMP N.R.

$x = -2$ INFINITE N.R.

3. $\lim_{x \rightarrow 1} f(x)$ 2

4. $\lim_{x \rightarrow 6} f(x)$ $-\infty$

5. $\lim_{x \rightarrow \infty} f(x)$ 1

6. Evaluate $f(-7)$ -3

7. $\lim_{x \rightarrow -7} f(x)$ -1

8. Evaluate $g(4)$ 1

9. $\lim_{x \rightarrow 4^+} g(x)$ -1

10. $\lim_{x \rightarrow 4^-} g(x)$ 3

11. $\lim_{x \rightarrow 4} g(x)$ DNE

12. $\lim_{x \rightarrow -6^-} g(x)$ ∞

13. $\lim_{x \rightarrow -6^+} g(x) = -\infty$

14. $\lim_{x \rightarrow -6} g(x) = \text{DNE}$

15. Evaluate $f(3) = 1$

16. $\lim_{x \rightarrow 3} f(x) = \text{DNE}$

17. Evaluate $g(2) = 4$

18. $\lim_{x \rightarrow 2} g(x) = 4$

19. Evaluate $f(g(2))$.
 $g(2) = 4$
 $f(4) = 0$

20. Evaluate $(fg)(3)$
 $f(3) = 1$
 $g(3) = 3$

21. Evaluate $\lim_{x \rightarrow \infty} g(x) = \infty$

22. $\lim_{x \rightarrow -4} (f+g)(x)$
 $\lim_{x \rightarrow -4} f(x) \approx 3.75$
 $\lim_{x \rightarrow -4} g(x) = 3$
6.75

23. $\lim_{x \rightarrow -2} (f+g)(x) = \text{DNE}$

$\lim_{x \rightarrow -2} f(x) \approx 2.5$

$\lim_{x \rightarrow -2} g(x) \rightarrow -\infty$

24. Evaluate $\lim_{x \rightarrow 2} f(g(x))$

$\lim_{x \rightarrow 2} g(x) = 4$

$\lim_{x \rightarrow 4} f(x) = 0$