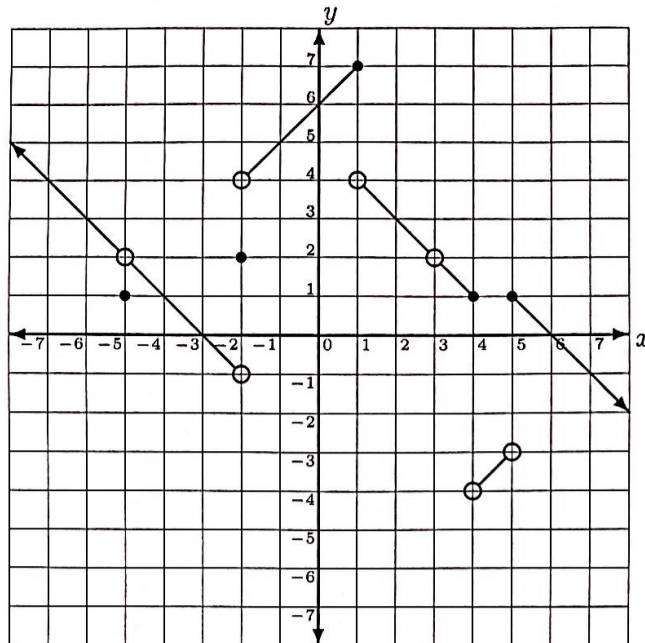


## EXERCISES

For the function  $f$  graphed below, find the following:



- |                                       |                                       |  |
|---------------------------------------|---------------------------------------|--|
| 1. $\lim_{x \rightarrow -5^-} f(x) =$ | 11. $\lim_{x \rightarrow 0} f(x) =$   | 21. $\lim_{x \rightarrow 4^-} f(x) =$                          |
| 2. $\lim_{x \rightarrow -5^+} f(x) =$ | 12. $f(0) =$                          | 22. $\lim_{x \rightarrow 4^+} f(x) =$                          |
| 3. $\lim_{x \rightarrow -5} f(x) =$   | 13. $\lim_{x \rightarrow 1^-} f(x) =$ | 23. $\lim_{x \rightarrow 4} f(x) =$                            |
| 4. $f(-5) =$                          | 14. $\lim_{x \rightarrow 1^+} f(x) =$ | 24. $f(4) =$   |
| 5. $\lim_{x \rightarrow -2^-} f(x) =$ | 15. $\lim_{x \rightarrow 1} f(x) =$   | 25. $\lim_{x \rightarrow 5^-} f(x) =$                          |
| 6. $\lim_{x \rightarrow -2^+} f(x) =$ | 16. $f(1) =$                          | 26. $\lim_{x \rightarrow 5^+} f(x) =$                          |
| 7. $\lim_{x \rightarrow -2} f(x) =$   | 17. $\lim_{x \rightarrow 3^-} f(x) =$ | 27. $\lim_{x \rightarrow 5} f(x) =$                            |
| 8. $f(-2) =$                          | 18. $\lim_{x \rightarrow 3^+} f(x) =$ | 28. $f(5) =$   |
| 9. $\lim_{x \rightarrow 0^-} f(x) =$  | 19. $\lim_{x \rightarrow 3} f(x) =$   | 29. List the value(s) of $x$<br>at which $f$ is discontinuous. |
| 10. $\lim_{x \rightarrow 0^+} f(x) =$ | 20. $f(3) =$                          |  |

Also complete pg. 827 #23-24