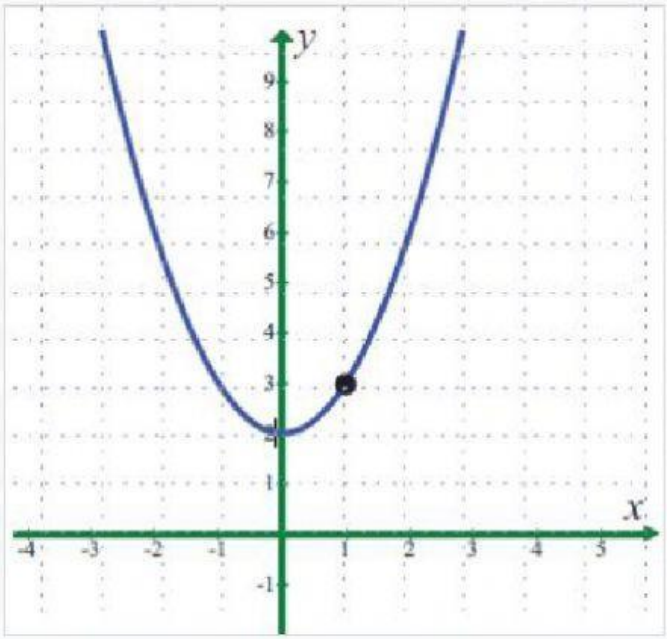
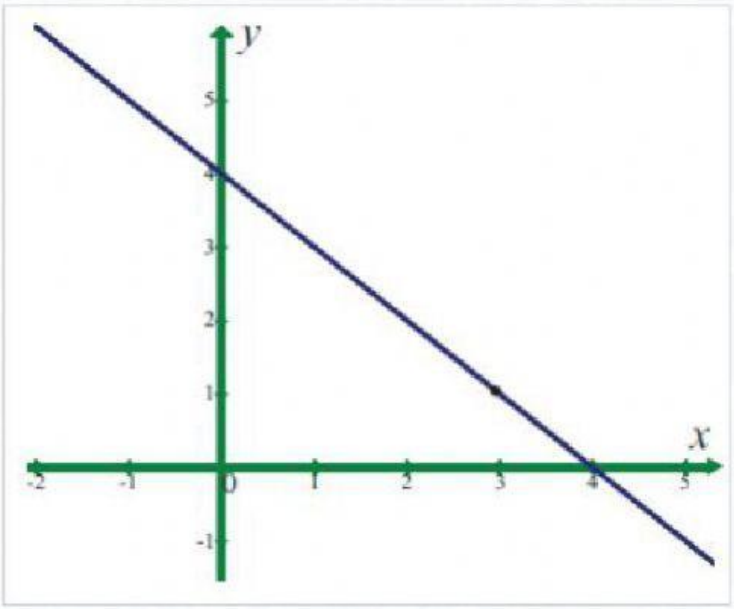
$\lim_{x \to 1} (x^2 + 2)$

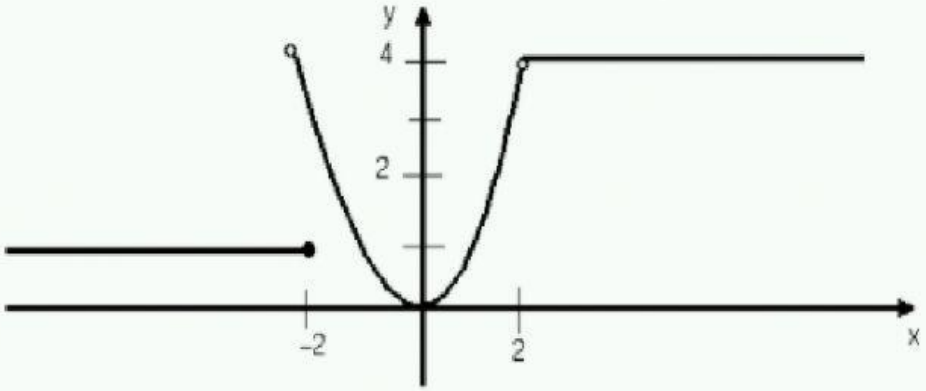


$\lim_{x \to 3} (4 - x)$

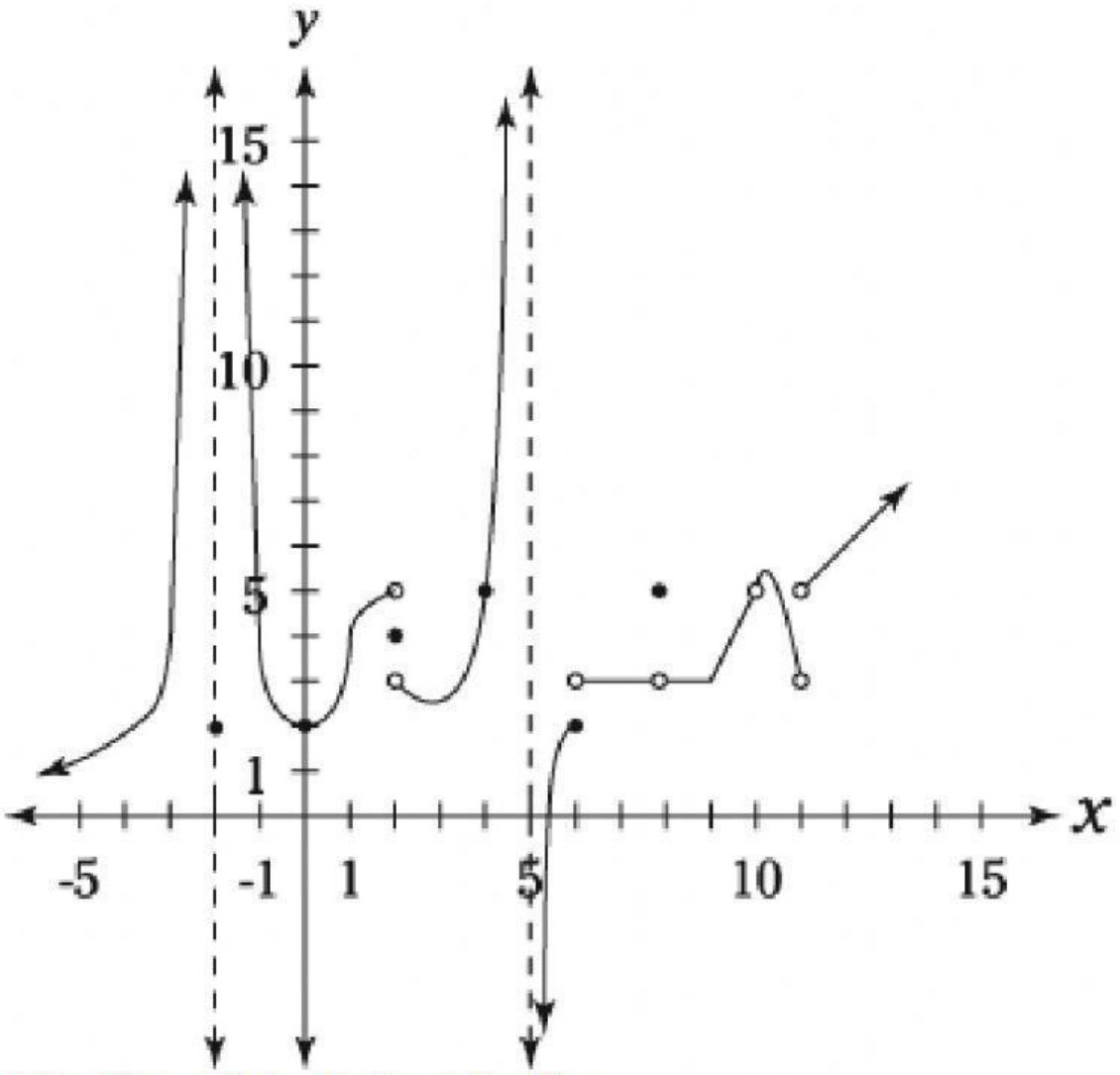


Limits: Exercise One

Use the graph of the function y = f(x) below to find the following limits



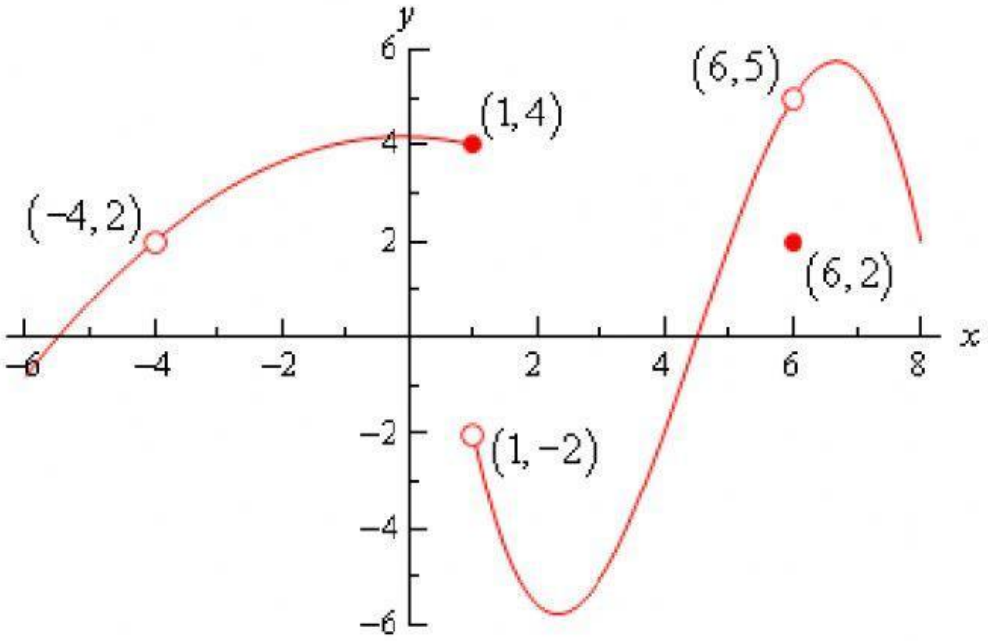
Exercise 1	Exercise 2	Exercise 3
(a) $\lim_{x \to 2^-} f(x)$	(a) $\lim_{x \to -2^-} f(x)$	(a) $\lim_{x \to \infty} f(x)$
(b) $\lim_{x \to 2^+} f(x)$	(b) $\lim_{x \to -2^+} f(x)$	(b) $\lim_{x \to -\infty} f(x)$
(c) $\lim_{x \to 2} f(x)$	(c) $\lim_{x \to -2} f(x)$	(c) $\lim_{x \to 0} f(x)$



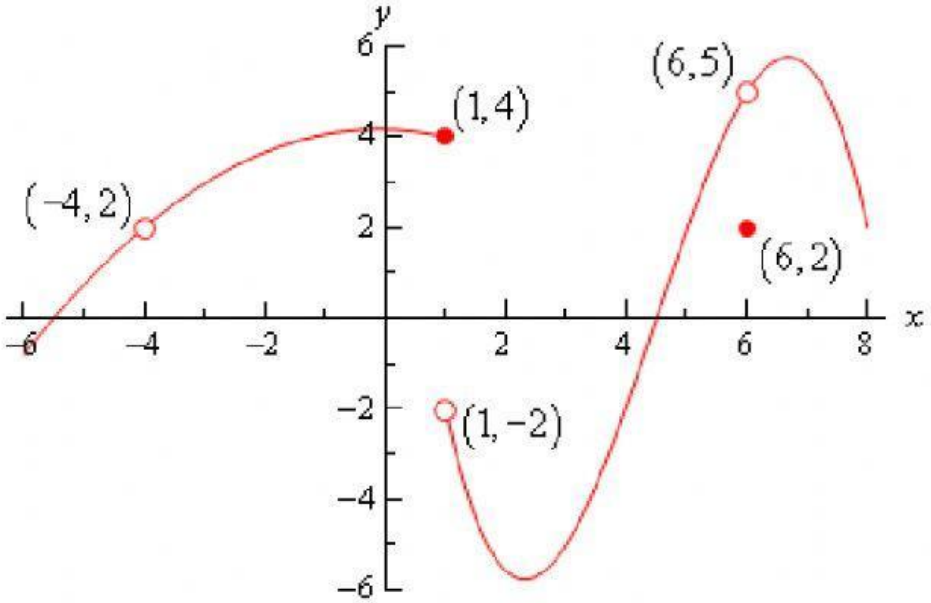
A function with many discontinuities.

Find the $\lim_{x \to 8} f(x)$

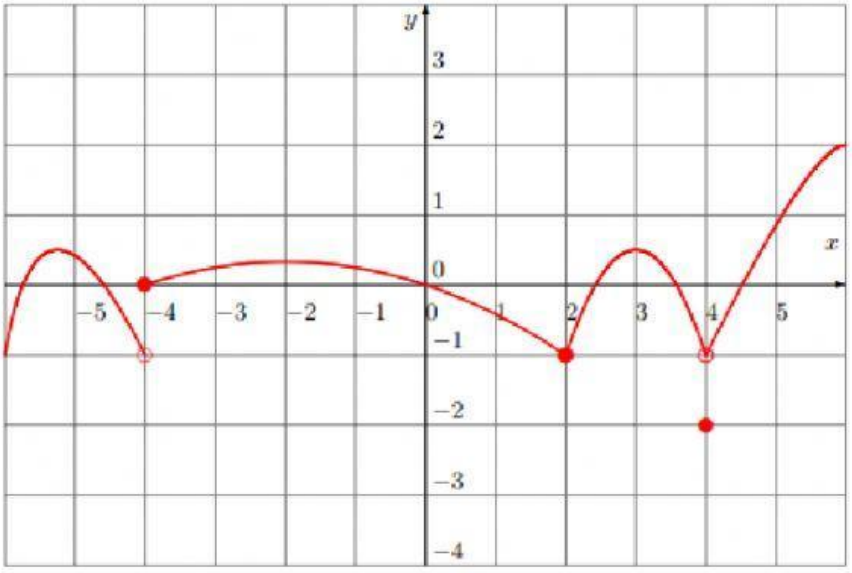
Find the $\lim_{x \to 2^-} f(x)$



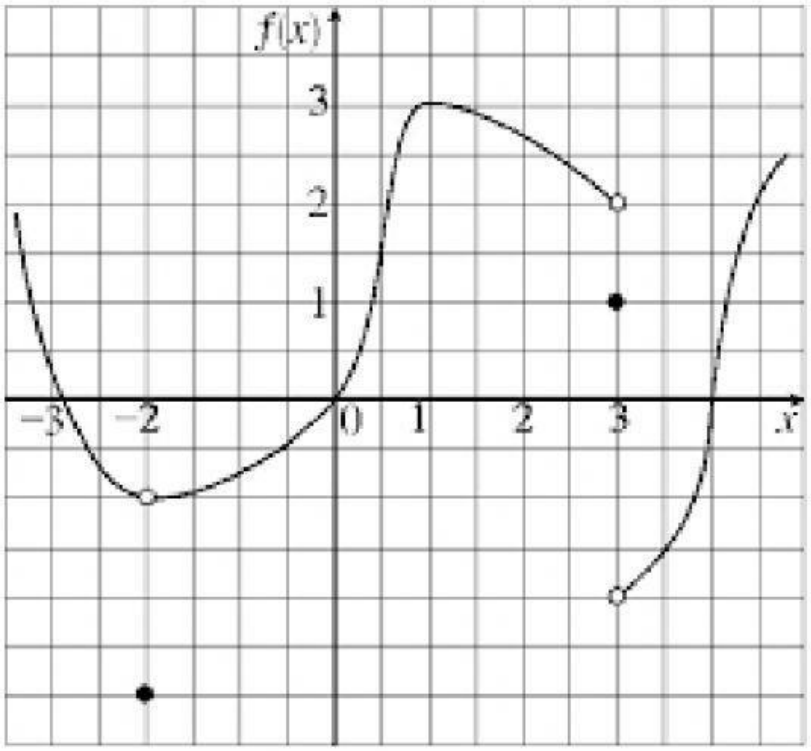
Find the $\lim$ *it as* $x \to 1^-$



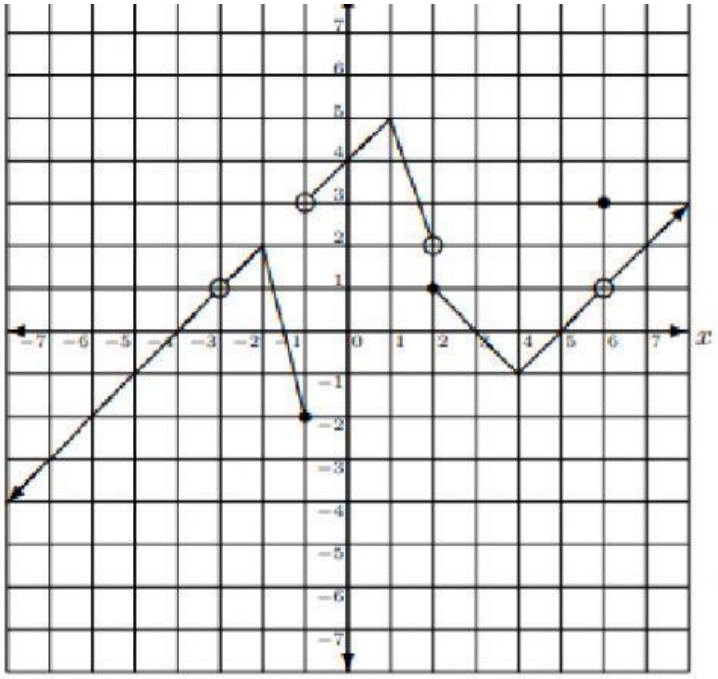
Find the $\lim$ *it as* $x \to -4$



Find the $\lim$ *it as* $x \to -4$



Find the $\lim$ *it as* $x \to 0$



1. $\lim_{x \to -3^-} f(x) =$

2. $\lim_{x \to -3^+} f(x) =$

3. $\lim_{x \to -3} f(x) =$

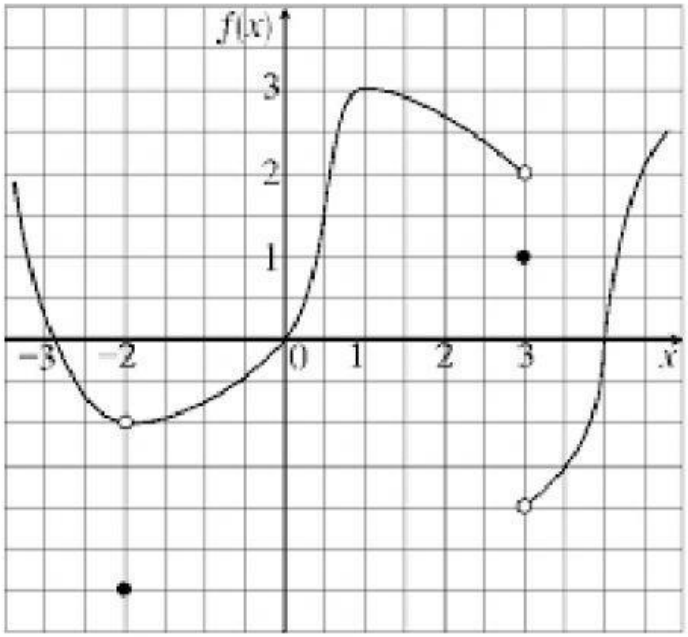
9. $\lim_{x \to 2^-} f(x) =$

10. $\lim_{x \to 2^+} f(x) =$

11. $\lim_{x \to 2} f(x) =$

17. $\lim_{x \to 6^-} f(x) =$

18. $\lim_{x \to 6^+} f(x) =$



Find the $\lim$ *it as* $x \to 3^+$