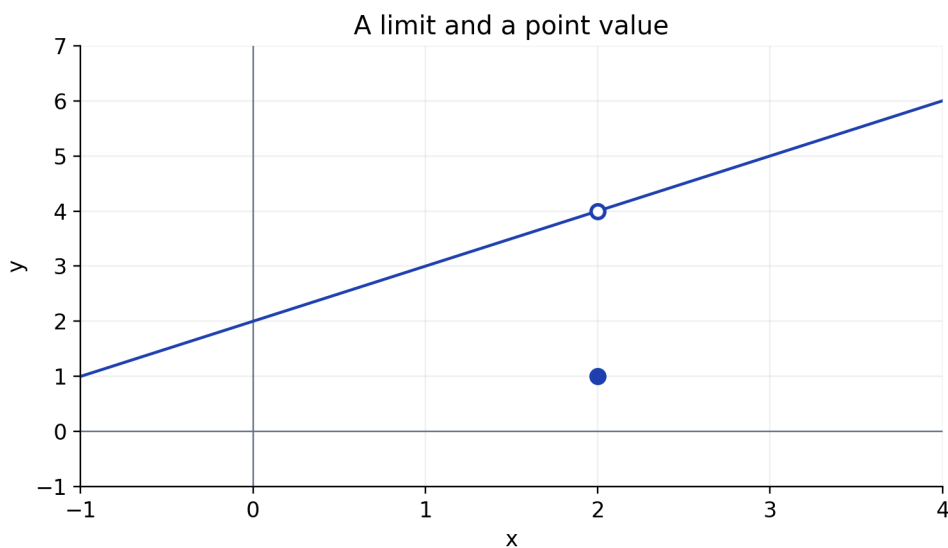


Lesson 6.1 · Practice

No calculator required | Name: _____

1. A graph follows $y = x + 2$ except that $f(2) = 1$. Find $\lim_{x \rightarrow 2} f(x)$ and $f(2)$.



Trace the line toward the target from both sides.

2. Evaluate $\lim_{x \rightarrow 3} \frac{x^2 - 9}{x - 3}$.

Lesson 6.1 · Practice

No calculator required | Name: _____

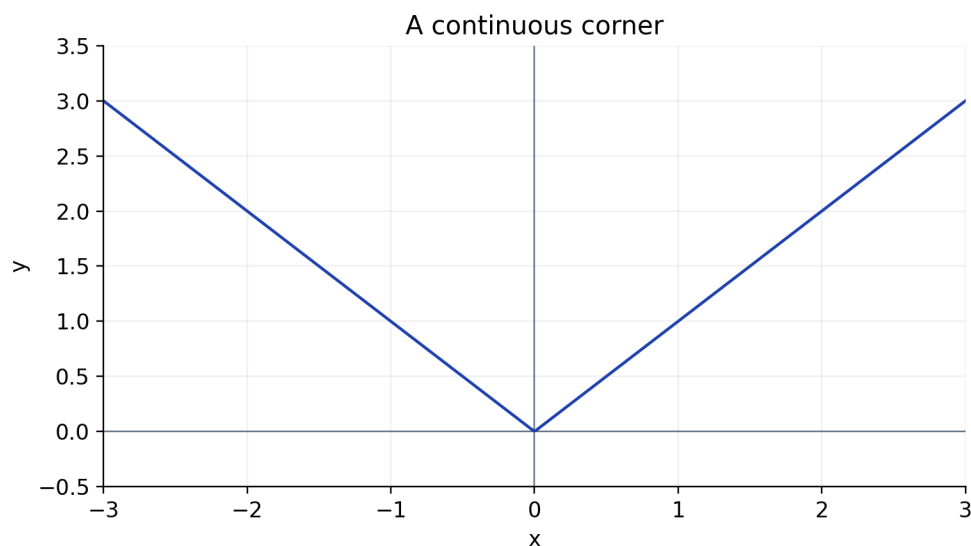
3. A table gives values near 5 from the left of a and near 7 from the right. What does this suggest about the two-sided limit?

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Lesson 6.2 · Practice

No calculator required | Name: _____

4. Is $f(x) = |x|$ continuous and differentiable at 0? Justify each claim.



Compare both point continuity and one-sided slopes.

5. For $f(x) = (x^2 - 1)/(x - 1)$ away from 1, what value of $f(1)$ gives continuity?

Lesson 6.2 · Practice

No calculator required | Name: _____

6. Use a difference quotient to find $f'(2)$ for $f(x) = x^2$.

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