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|---------|-----------|-----|------|-----|-----------|
| x | $-\infty$ | | 0 | | $+\infty$ |
| $f'(x)$ | 5 | $+$ | 0 | $-$ | -10 |
| $f(x)$ | | | 10 | | |
| | $-\infty$ | | | | -10 |



The diagram shows a peak at $x=0$ with a value of 10 . Two arrows point downwards from this peak: one to the left towards $x=-\infty$ and one to the right towards $x=+\infty$.