

1. Find $\lim_{x \rightarrow -1^+} \lfloor x \rfloor$.
2. Find $\lim_{x \rightarrow -3^-} \lfloor -x \rfloor$.
3. Where is $y = \lfloor 2x \rfloor$ discontinuous?
4. Where is $y = \lfloor x \rfloor^2$ discontinuous?
5. Where is $y = \lfloor x^2 \rfloor$ discontinuous?
6. Where is $y = \lfloor x \rfloor^2 - \lfloor x \rfloor$ discontinuous?
7. Where is $y = \sin \pi \lfloor x \rfloor$ continuous? $y = \cos \pi \lfloor x \rfloor$?
8. What is the domain of
$$y = \frac{1}{\lfloor x \rfloor^2 - 3\lfloor x \rfloor + 2}?$$
9. What is the domain of
$$y = \frac{1}{\lfloor x \rfloor^2 - 3x + 2}?$$
10. Graph $y = -\lfloor -x \rfloor$. Where is this function continuous?
11. Where is the function $y = \lfloor x^2 \rfloor - \lfloor x \rfloor^2$ discontinuous on the interval $[0, 2]$? Graph the function on $[0, 2]$.