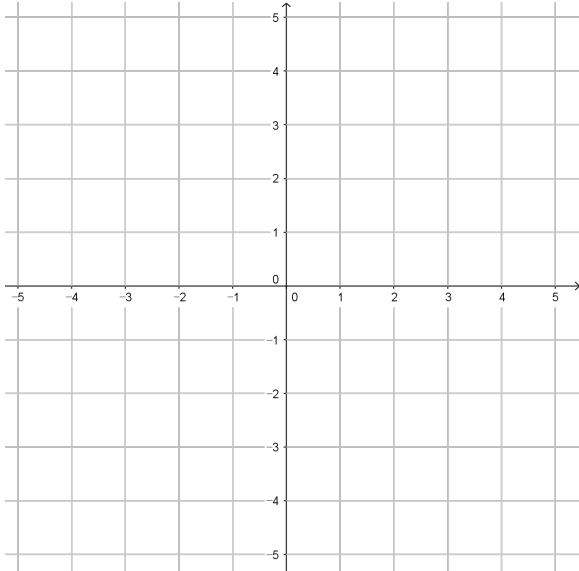


## 수지 : 함수의 극한 복습

2018년 5월 13일

예시 1)  $y = x^2 - 4$



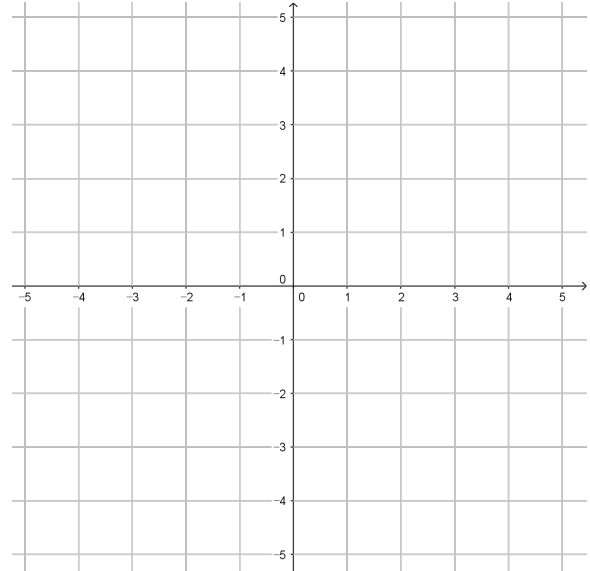
$$\lim_{x \rightarrow 1} (x^2 - 4) =$$

$$\lim_{x \rightarrow 0} (x^2 - 4) =$$

$$\lim_{x \rightarrow \infty} (x^2 - 4) =$$

$$\lim_{x \rightarrow -\infty} (x^2 - 4) =$$

문제 2)  $y = -x^2 + 4$



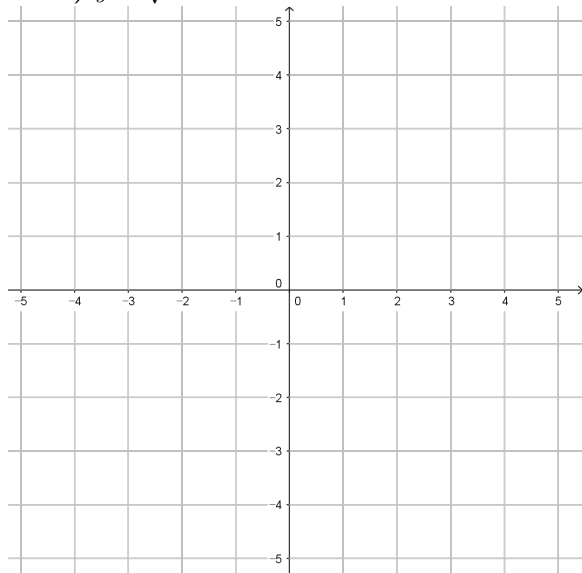
$$\lim_{x \rightarrow 1} (-x^2 + 4) =$$

$$\lim_{x \rightarrow 2} (-x^2 + 4) =$$

$$\lim_{x \rightarrow \infty} (-x^2 + 4) =$$

$$\lim_{x \rightarrow -\infty} (-x^2 + 4) =$$

예시 3)  $y = \sqrt{x}$

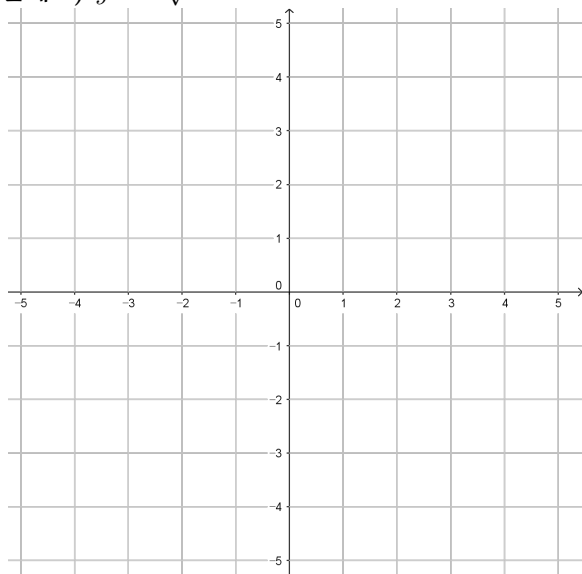


$$\lim_{x \rightarrow 4} \sqrt{x} =$$

$$\lim_{x \rightarrow 3} \sqrt{x} =$$

$$\lim_{x \rightarrow \infty} \sqrt{x} =$$

문제 4)  $y = -\sqrt{x}$

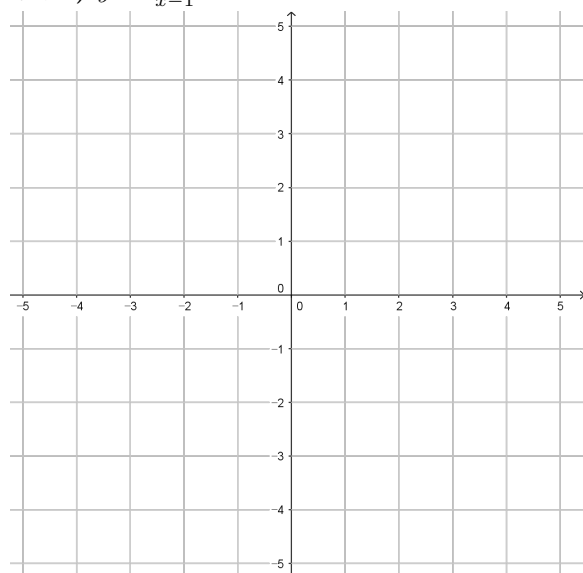


$$\lim_{x \rightarrow 1} (-\sqrt{x}) =$$

$$\lim_{x \rightarrow 3} (-\sqrt{x}) =$$

$$\lim_{x \rightarrow \infty} (-\sqrt{x}) =$$

예시 5)  $y = \frac{2x+1}{x-1}$



$$\lim_{x \rightarrow 2} \frac{2x+1}{x-1} =$$

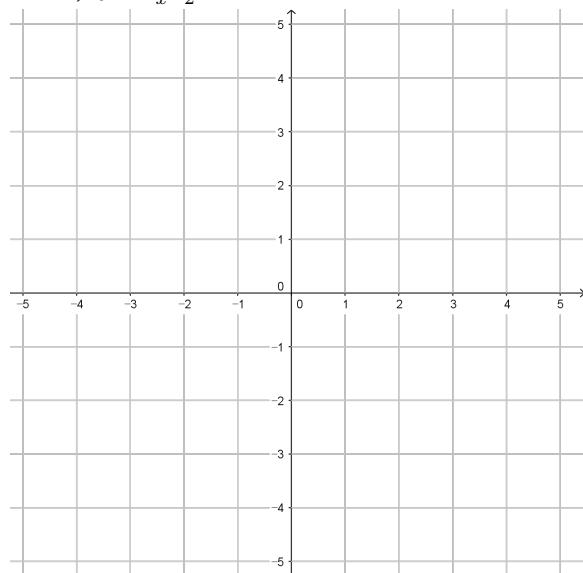
$$\lim_{x \rightarrow \infty} \frac{2x+1}{x-1} =$$

$$\lim_{x \rightarrow -\infty} \frac{2x+1}{x-1} =$$

$$\lim_{x \rightarrow 1+} \frac{2x+1}{x-1} =$$

$$\lim_{x \rightarrow 1-} \frac{2x+1}{x-1} =$$

문제 6)  $y = \frac{2x-3}{x-2}$



$$\lim_{x \rightarrow 1} \frac{2x-3}{x-2} =$$

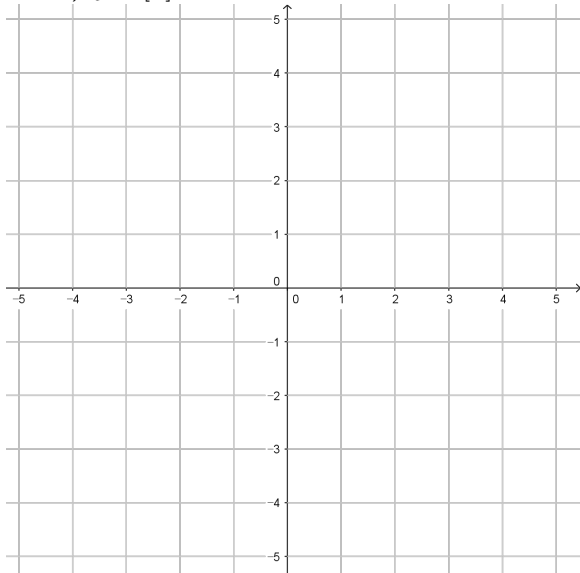
$$\lim_{x \rightarrow \infty} \frac{2x-3}{x-2} =$$

$$\lim_{x \rightarrow -\infty} \frac{2x-3}{x-2} =$$

$$\lim_{x \rightarrow 2+} \frac{2x-3}{x-2} =$$

$$\lim_{x \rightarrow 2-} \frac{2x-3}{x-2} =$$

예시 7)  $y = [x]$



$$\lim_{x \rightarrow \frac{3}{2}} [x] =$$

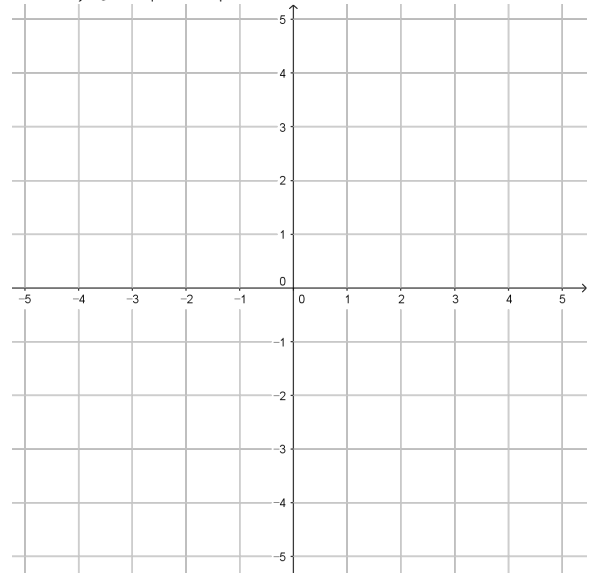
$$\lim_{x \rightarrow 1+} [x] =$$

$$\lim_{x \rightarrow 1-} [x] =$$

$$\lim_{x \rightarrow -1+} [x] =$$

$$\lim_{x \rightarrow -1-} [x] =$$

예시 9)  $y = |x - 2|$



$$\lim_{x \rightarrow 1} |x - 2| =$$

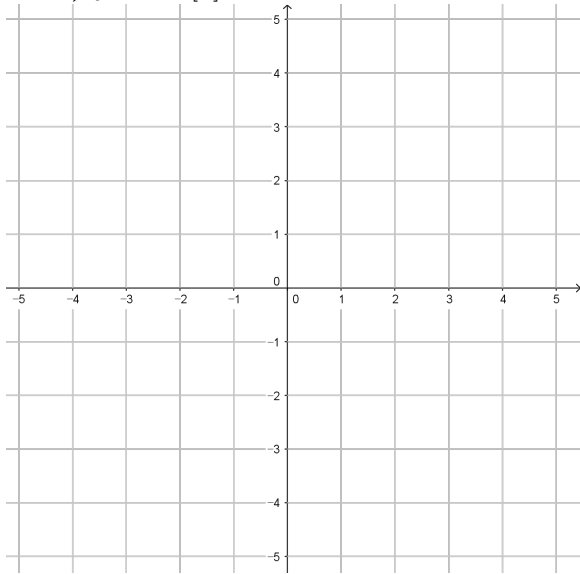
$$\lim_{x \rightarrow 2} |x - 2| =$$

$$\lim_{x \rightarrow 3} |x - 2| =$$

$$\lim_{x \rightarrow \infty} |x - 2| =$$

$$\lim_{x \rightarrow -\infty} |x - 2| =$$

문제 8)  $y = x - [x]$



$$\lim_{x \rightarrow \frac{3}{2}} (x - [x]) =$$

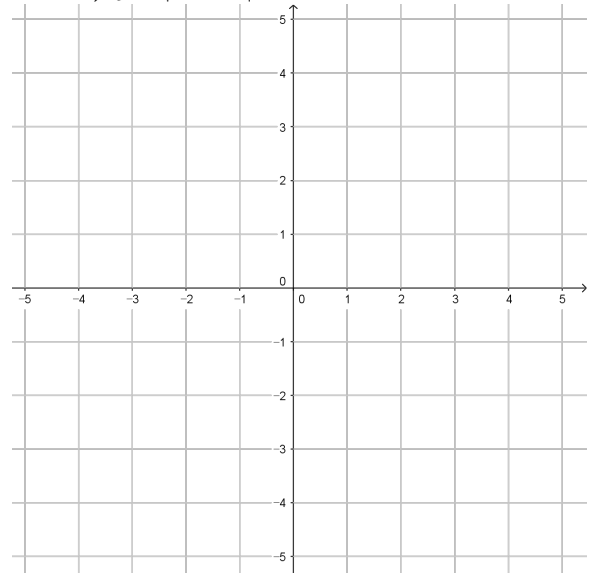
$$\lim_{x \rightarrow 1+} (x - [x]) =$$

$$\lim_{x \rightarrow 1-} (x - [x]) =$$

$$\lim_{x \rightarrow -1+} (x - [x]) =$$

$$\lim_{x \rightarrow -1-} (x - [x]) =$$

문제 10)  $y = |2x + 2|$



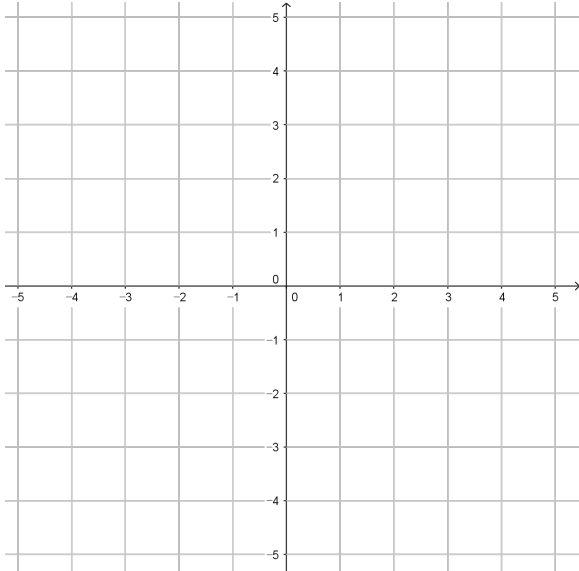
$$\lim_{x \rightarrow -1} |2x + 2| =$$

$$\lim_{x \rightarrow 2} |2x + 2| =$$

$$\lim_{x \rightarrow \infty} |2x + 2| =$$

$$\lim_{x \rightarrow -\infty} |2x + 2| =$$

예시 11)  $y = \frac{x-2}{|x-2|}$



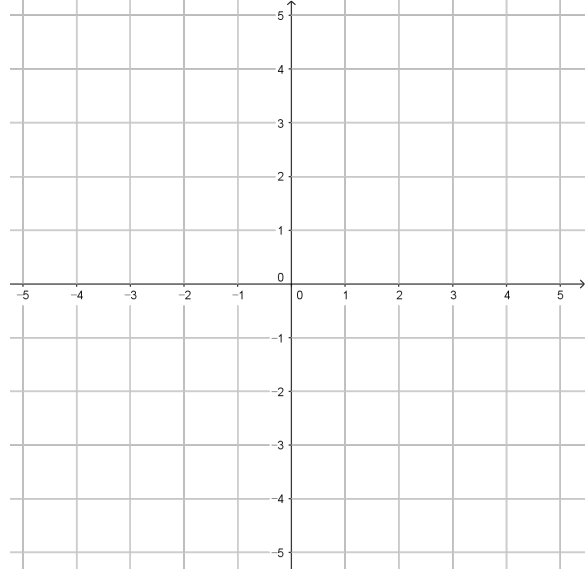
$$\lim_{x \rightarrow 1} \frac{x-2}{|x-2|} =$$

$$\lim_{x \rightarrow 3} \frac{x-2}{|x-2|} =$$

$$\lim_{x \rightarrow 2+} \frac{x-2}{|x-2|} =$$

$$\lim_{x \rightarrow 2-} \frac{x-2}{|x-2|} =$$

예시 13)  $y = \frac{x^2+x-2}{x-1}$



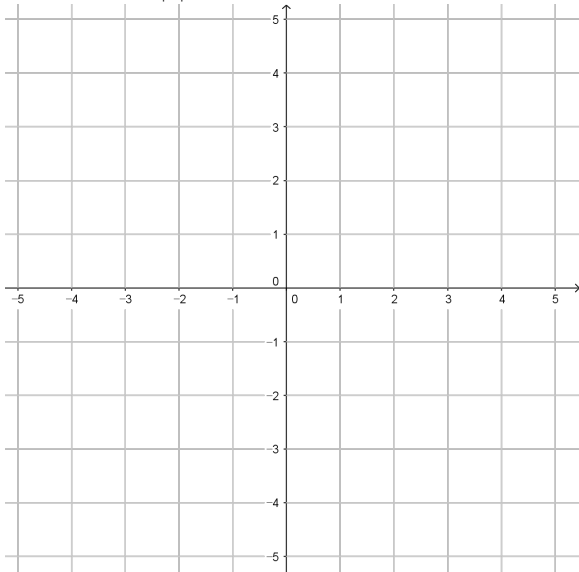
$$\lim_{x \rightarrow 0} \frac{x^2+x-2}{x-1} =$$

$$\lim_{x \rightarrow 2} \frac{x^2+x-2}{x-1} =$$

$$\lim_{x \rightarrow 1+} \frac{x^2+x-2}{x-1} =$$

$$\lim_{x \rightarrow 1-} \frac{x^2+x-2}{x-1} =$$

문제 12)  $y = \frac{x}{|x|}$



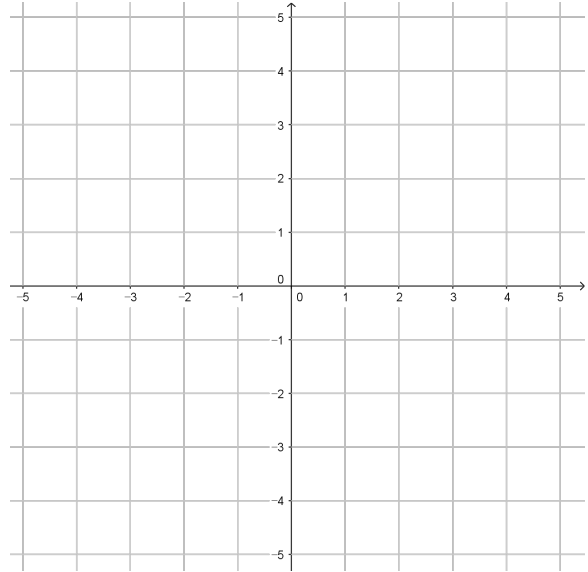
$$\lim_{x \rightarrow -2} \frac{x}{|x|} =$$

$$\lim_{x \rightarrow 3} \frac{x}{|x|} =$$

$$\lim_{x \rightarrow 0+} \frac{x}{|x|} =$$

$$\lim_{x \rightarrow 0-} \frac{x}{|x|} =$$

문제 14)  $y = \frac{x^2-3x+2}{x-2}$



$$\lim_{x \rightarrow 1} \frac{x^2-3x+2}{x-2} =$$

$$\lim_{x \rightarrow 3} \frac{x^2-3x+2}{x-2} =$$

$$\lim_{x \rightarrow 2+} \frac{x^2-3x+2}{x-2} =$$

$$\lim_{x \rightarrow 2-} \frac{x^2-3x+2}{x-2} =$$