(1-17) The graphs of the functions *f* and *g* are given below. Use the graphs to answer the following questions. ***Assume “open circles” at the discontinuities***.

  

Graph of *f* Graph of *g*

1.  11. 

2.  12. 

3.  13. 

4.  14. 

5.  15. 

6.  16. 

7.  17. 

8. 

9. 

10. 

(1-6) Find each of the limits without a calculator. Use the limits as an aide to sketch the graph of $f\left(x\right)=\frac{x-2}{\left|x\right|-2}$ for $-10\leq x\leq 10$ and $-6\leq y\leq 6$. Be sure to clearly indicate any asymptotes, holes or other important characteristics.

1. $\lim\_{x\to -\infty }f\left(x\right)$
2. $\lim\_{x\to \infty }f\left(x\right)$
3. $\lim\_{x\to -2^{+}}f\left(x\right)$
4. $\lim\_{x\to -2^{-}}f\left(x\right)$
5. $\lim\_{x\to 2^{+}}f\left(x\right)$
6. $\lim\_{x\to 2^{-}}f\left(x\right)$