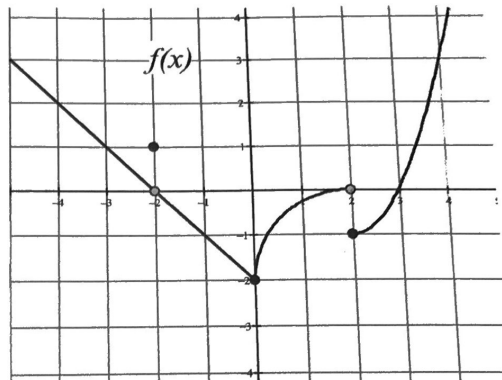Limits Assignment #1

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Date _1/27/2020_
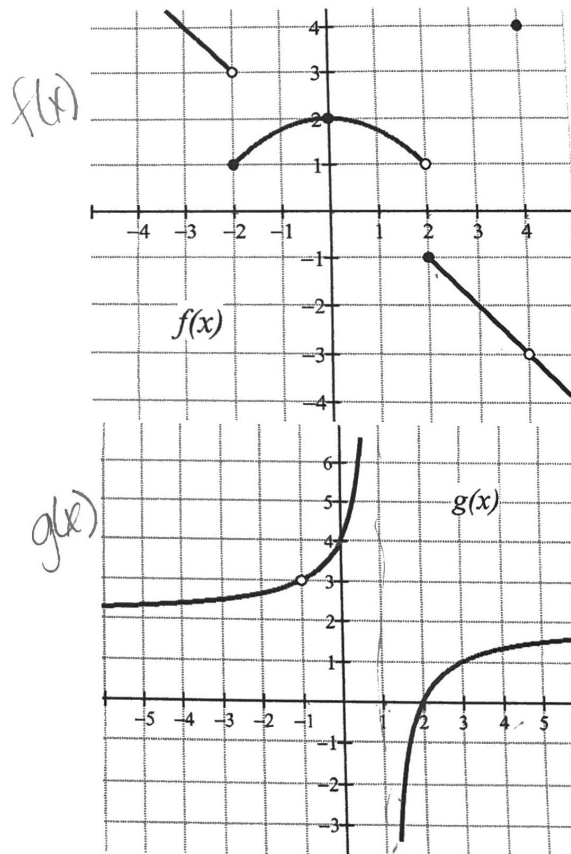
Use the graph on the right to answer the following questions.

1. $\lim_{x \to -2} f(x) = 0$

2. $\lim_{x \to 2^-} f(x) = 0$

3. $\lim_{x \to 2^+} f(x) = -1$

4. $f(2) = -1$

Use the graphs of f(x) and g(x) to answer 5-15

5. $\lim_{x \to 2^+} f(x) = -1$

6. $\lim_{x \to 2^-} f(x) = 1$

7. $\lim_{x \to 4} f(x) = -3$

8. $\lim_{x \to -2} f(x) = DNE$

9. $\lim_{x \to 1^+} g(x) = +\infty$

10. $\lim_{x \to 1^-} g(x) = +\infty$

11. $\lim_{x \to -1} g(x) = 3$

12. $\lim_{x \to 0} 2f(x) + g(x) = 8$
   $2(2) + 4 =$

13. $\lim_{x \to 2^-} f(x) \cdot g(x) = 0$
   $1 \quad 0.$

14. $\lim_{x \to -\infty} g(x) = 2$

15. $\lim_{x \to 0} \dfrac{2f(x)}{g(x)} = \dfrac{2(2)}{4} = \dfrac{4}{4} = 1$