

BM 3 End Behavior Worksheet

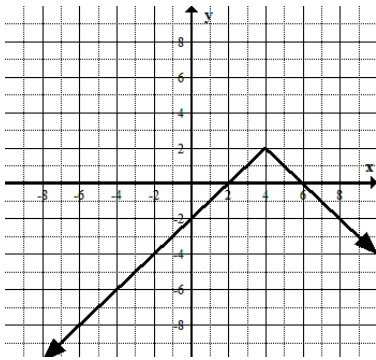
Name _____

Block _____ Date _____

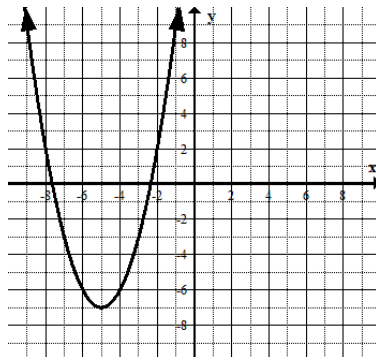
Determine the end behavior for each function below. Place the letter(s) of the appropriate statement(s) on the line provided.

- A. As x approaches ∞ , y approaches ∞
- B. As x approaches $-\infty$, y approaches ∞
- C. As x approaches ∞ , y approaches $-\infty$
- D. As x approaches $-\infty$, y approaches $-\infty$

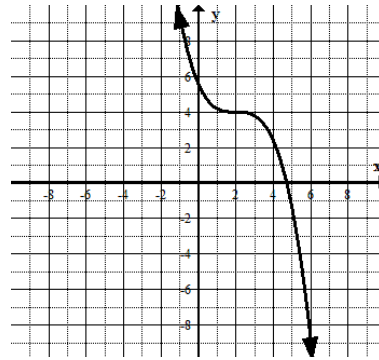
1. _____



2. _____



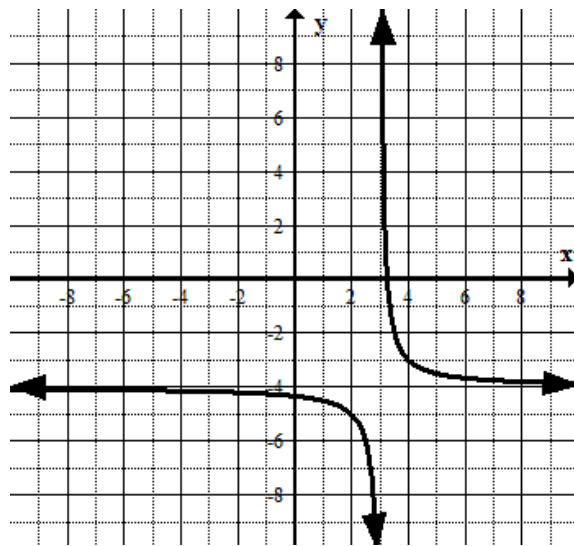
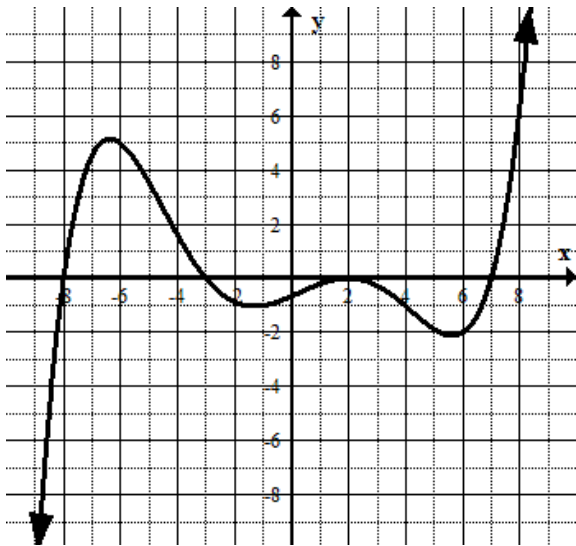
3. _____



Give the end behavior for each function by filling in each blank.

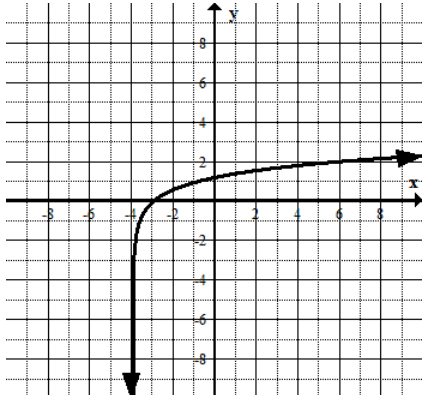
4. As x approaches _____, y approaches _____
 As x approaches _____, y approaches _____

5. As x approaches _____, y approaches _____
 As x approaches _____, y approaches _____

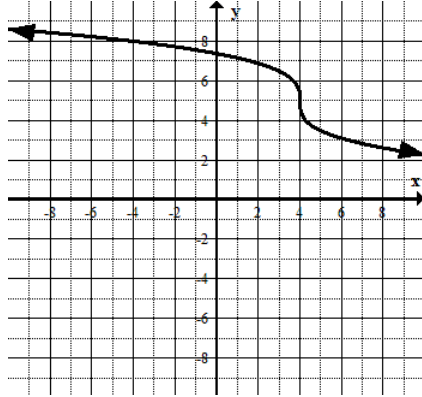


Give the end behavior for each function.

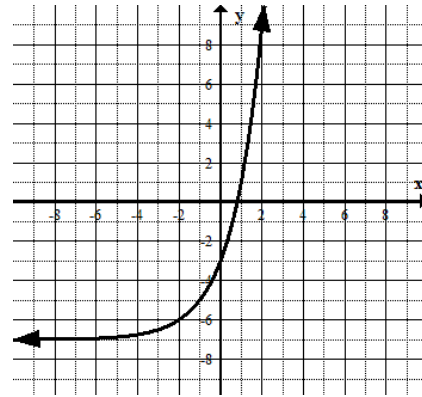
6.



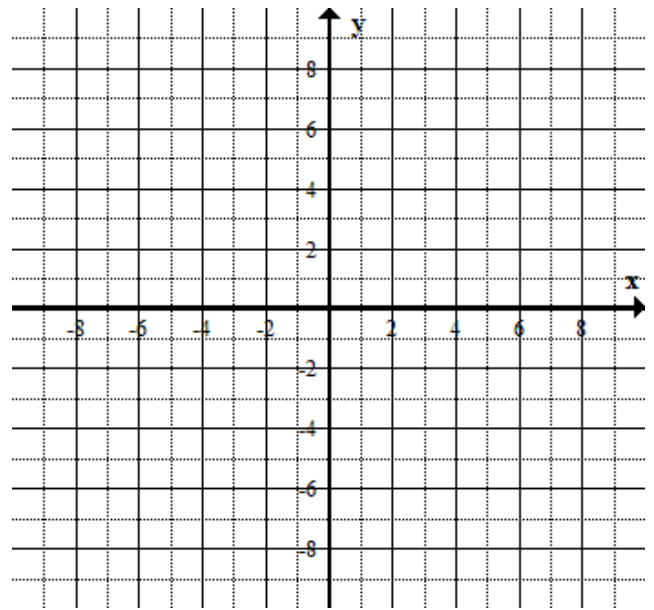
7.



8.

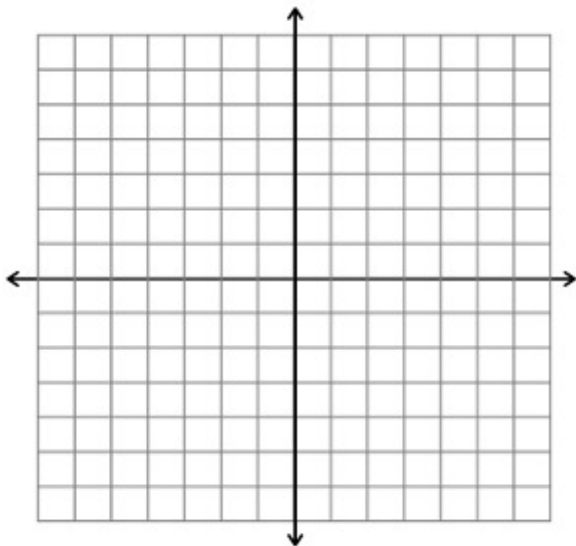


9. Sketch the graph of $y = \sqrt{x + 5} + 2$. What is the end behavior of this function? Explain your answer.



Sketch a graph that has the given end behavior.

10. As x approaches $-\infty$, y approaches ∞
As x approaches ∞ , y approaches ∞



11. As x approaches $-\infty$, y approaches $-\infty$
As x approaches ∞ , y approaches ∞

