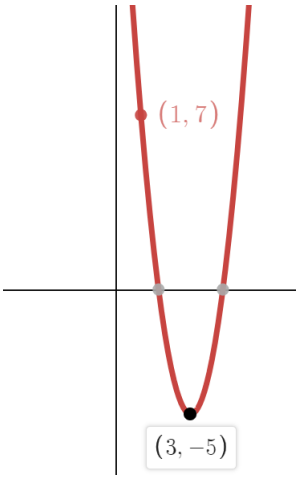
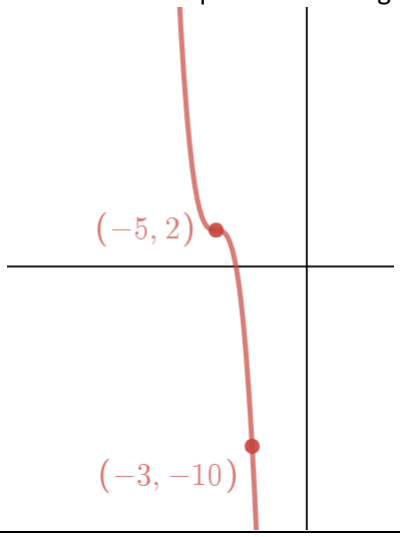
Write the equation for each graph and sketch graphs with a ≠ 1

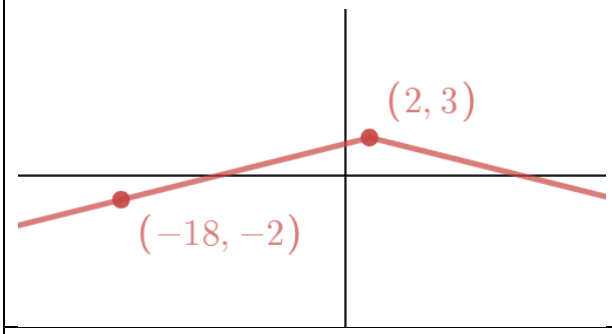
1. Write the equation for the graph.



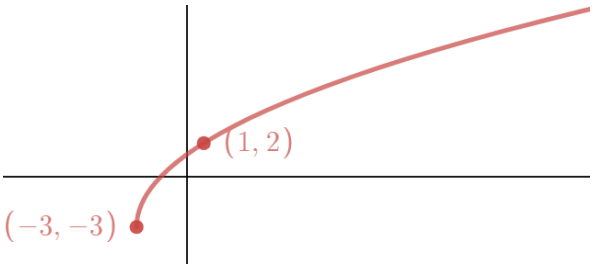
2. Write the equation for the graph.



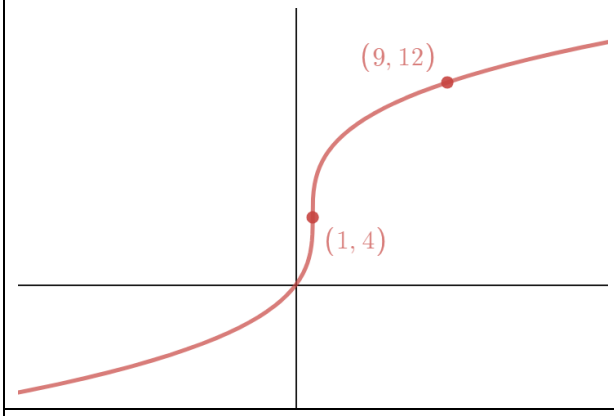
3. Write the equation for the graph.



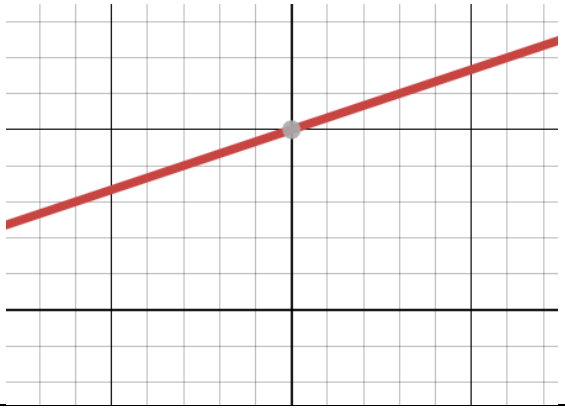
4. Write the equation for the graph.



5. Write the equation for the graph.



6. Write the equation for the graph.



7. Sketch each graph on graph paper. Include at least 5 key points.

$$f(x) = 3\sqrt{x+5} - 2$$

8. Sketch each graph on graph paper. Include at least 5 key points.

$$f(x) = \frac{1}{2}(x-4)^3 + 3$$

9. Sketch each graph on graph paper. Include at least 5 key points.

$$f(x) = 5|x+1| - 6$$

10. Sketch each graph on graph paper. Include at least 5 key points.

$$f(x) = \frac{3}{4}(x-4)^2 - 1$$