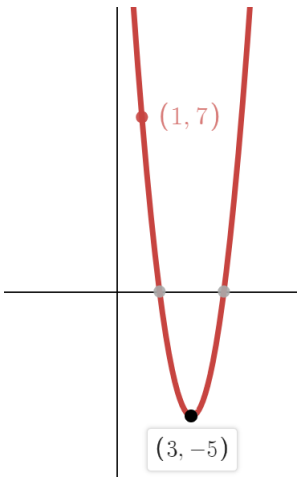

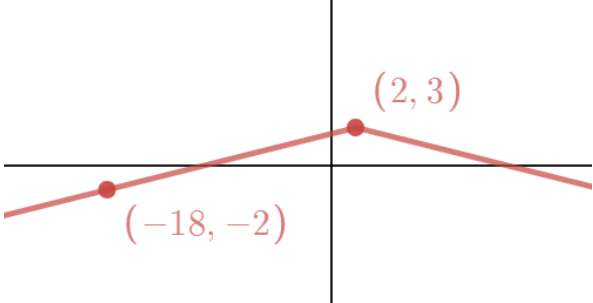
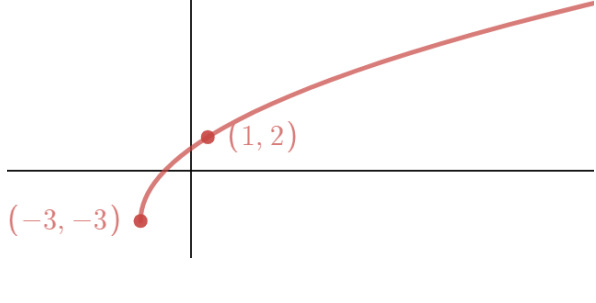
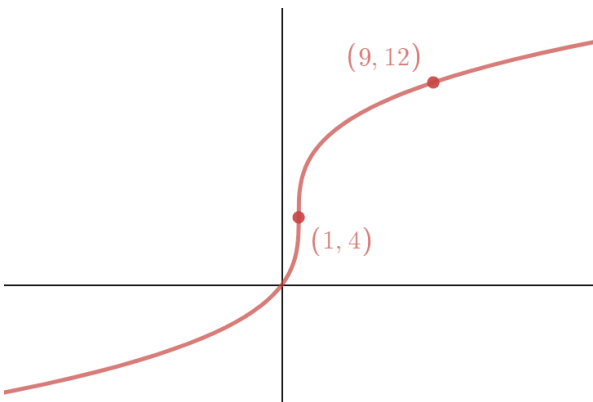
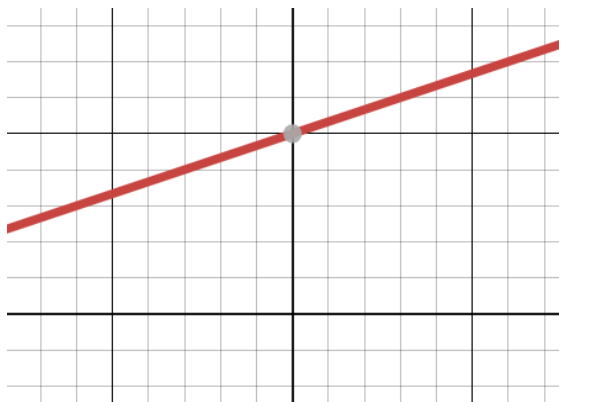


Write the equation for each graph and sketch graphs with  $a \neq 1$

<p>1. Write the equation for the graph.</p>  <p>A coordinate plane showing a parabola opening upwards. The vertex is at (3, -5), which is enclosed in a box. Another point on the parabola is (1, 7). The x-axis and y-axis are shown, with the origin at the center.</p>	<p>2. Write the equation for the graph.</p>  <p>A coordinate plane showing a curve that passes through the points (-5, 2) and (-3, -10). The curve appears to be a cubic function.</p>
<p>3. Write the equation for the graph.</p>  <p>A coordinate plane showing a piecewise linear function. The graph consists of three line segments connecting the points (-18, -2), (2, 3), and another point to the right. The point (2, 3) is the highest point of the graph.</p>	<p>4. Write the equation for the graph.</p>  <p>A coordinate plane showing a curve that passes through the points (-3, -3) and (1, 2). The curve is concave up and appears to be a cubic function.</p>
<p>5. Write the equation for the graph.</p>  <p>A coordinate plane showing a curve that passes through the points (1, 4) and (9, 12). The curve is concave down and appears to be a cubic function.</p>	<p>6. Write the equation for the graph.</p>  <p>A coordinate plane with a grid showing a straight line. The line passes through the y-axis at (0, 2) and the x-axis at (4, 0). The line has a positive slope.</p>
<p>7. Sketch each graph on graph paper. Include at least 5 key points.</p> $f(x) = 3\sqrt{x+5} - 2$	<p>8. Sketch each graph on graph paper. Include at least 5 key points.</p> $f(x) = \frac{1}{2}(x-4)^3 + 3$
<p>9. Sketch each graph on graph paper. Include at least 5 key points.</p> $f(x) = 5 x+1  - 6$	<p>10. Sketch each graph on graph paper. Include at least 5 key points.</p> $f(x) = \frac{3}{4}(x-4)^2 - 1$