Reference 4: Corresponding Features of Graphs and Functions

<table>
<thead>
<tr>
<th>feature of graph</th>
<th>↔</th>
<th>feature of function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 (y)-intercept at ((0, b))</td>
<td>↔</td>
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<tr>
<td>2 (x)-intercept at ((a, 0))</td>
<td>↔</td>
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<tr>
<td>3 height of graph at (x = a)</td>
<td>↔</td>
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<tr>
<td>4 does graph even have a (y)-value at (x = a)?</td>
<td>↔</td>
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<tr>
<td>5 region where graph remains above (x)-axis</td>
<td>↔</td>
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</tr>
<tr>
<td>6 region where graph remains below (x)-axis</td>
<td>↔</td>
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<tr>
<td>7 hole in graph at (x = a)</td>
<td>↔</td>
<td></td>
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<tr>
<td>8 dot in wrong place at (x = a)</td>
<td>↔</td>
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<tr>
<td>9 jump in graph at (x = a)</td>
<td>↔</td>
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<tr>
<td>10 vertical asymptote at (x = a)</td>
<td>↔</td>
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<tr>
<td>11 horizontal asymptote at (y = b)</td>
<td>↔</td>
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<tr>
<td>12 steepness of graph at (x = a)</td>
<td>↔</td>
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<tr>
<td>13 max or min in graph at (x = a)</td>
<td>↔</td>
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<tr>
<td>14 cusp point at (x = a)</td>
<td>↔</td>
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<tr>
<td>15 concavity of graph at (x = a)</td>
<td>↔</td>
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<tr>
<td>16 concavity of graph changes at (x = a)</td>
<td>↔</td>
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</tbody>
</table>