

TI-84 Graphing Practice

Five original classroom questions with a teacher answer key.

Student practice

1. Graph $y = 2x + 3$. Record the y-intercept and the value of y when $x = 4$.
2. Graph $y = x^2 - 4$. Use the CALC menu to estimate both x-intercepts.
3. Graph $y = -0.5x + 6$ and $y = x - 3$. Find their intersection.
4. Graph $y = (x - 2)^2 + 1$. Identify the vertex from the graph or table.
5. Graph $y = 1/x$. Explain why the graph does not contain a point at $x = 0$.

Teacher answer key

- 1. y-intercept: 3; $y(4) = 11$.
- 2. x-intercepts: approximately -2 and 2.
- 3. Intersection: (6, 3).
- 4. Vertex: (2, 1).
- 5. Division by zero is undefined, so no function value exists at $x = 0$.

Suggested use

Use Questions 1-2 as a warm-up, Questions 3-4 as guided practice, and Question 5 as an exit-ticket explanation.

Accessible web version: www.calcforclass.com/oer/ti84-graphing-practice/