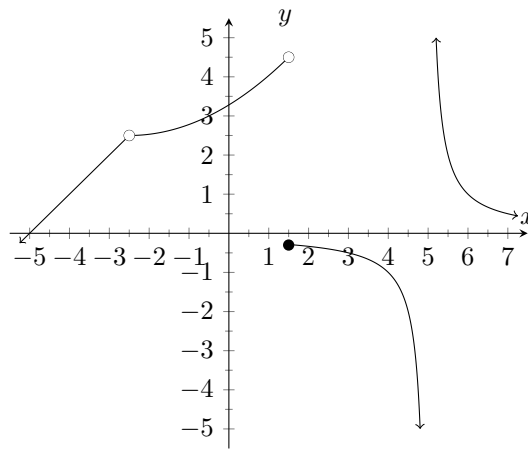


POI-Discontinuities Practice

Practice for Points of Interest - Discontinuities.

Problem 1 Consider the following graph.



Does the above graph have any hole discontinuities?

Multiple Choice:

- (a) Yes ✓
- (b) No

Problem 1.1 What is the approximate x -value of the hole? -2.5

Feedback(attempt): A hole is the type of discontinuity that is a single missing point in an otherwise continuous graph. This may not look like it quite right (another example of graphing being misleading, but not on purpose this time) but the x -value is actually -2.5 .

Problem 1.1.1 Is there a jump discontinuity?

Multiple Choice:

- (a) Yes ✓

Learning outcomes:

(b) No

Problem 1.1.1.1 What is the approximate x -value of the jump discontinuity?

Feedback(attempt): A jump discontinuity is the type of discontinuity that has a finite vertical jump between the end points.

Problem 1.1.1.1.1 Is there an infinite discontinuity?

Multiple Choice:

(a) Yes ✓

(b) No

Problem 1.1.1.1.1.1 What is the approximate x -value of the infinite discontinuity?

Feedback(attempt): An infinite discontinuity is the type of discontinuity that has a vertical asymptote.
