

# LIMITS COURSE

LESSON 8
One-sided limits of functions.
Continuity of functions.

Answers to Homework

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## Part 1: TEST

- 1) c
- 2) d
- 3) a
- 4) a
- 5) d
- 6) b
- 7) d
- 8) c
- 9) b
- 10) b

## **ANSWERS TO EXERCISES**

#### Ex. 1

- **1)** +∞
- **2**) +∞
- 3) −∞
- 4) −∞
- 5) +∞
- 6) −∞
- 7) +∞
- 8) +∞
- 9) 0
- 10) +∞

#### Ex. 2

- 1) The function is **not** continuous at  $x_0 = 0$  . The function is discontinuous.
- 2) The function is **not** continuous at  $x_0 = 1$  . The function is discontinuous.
- 3) The function is continuous at  $x_0 = 5$  . The function is continuous.
- 4) The function is continuous at  $x_0 = 0$  . The function is continuous.
- 5) The function is **not** continuous at  $x_0 = 2$  . The function is discontinuous.
- 6) The function is continuous at  $x_0=2$  . The function is **not** continuous at  $x_0=-2$  . The function is discontinuous.

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### Ex. 3

- 1) a=-5
- 2) a=-2
- 3) a=1, b=-1

END

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