Tests & Quizzes

Quiz 1.2

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Part 1 of 8 - A 1.0 Points

Question 1 of 8 1.0 Points

Instructions:

You can select one or more answers. Note you must get the complete right combination to get your marks, no partial marks.

Which of the following set(s) will have a lower bound but not an upper bound?

✔ A. $(4, \infty)$

B. $(-\infty, 8]$

C. $(4,8)$

D. $[4,8)$

Answer Key: A

Part 2 of 8 - B 1.0 Points

Question 2 of 8 1.0 Points

Instructions:

You can select one or more answers. Note you must get the complete right combination to get your marks, no partial marks.

Which of the following set(s) will have an upper bound but not a lower bound?

A. $(-3, -2)$

✔ B. $(-\infty, -2]$

C. $(-3, \infty)$

D. $[-3, -2)$

Answer Key: B

Part 3 of 8 - C 1.0 Points

Question 3 of 8

1.0 Points

Instructions:

You can select one or more answers. Note you must get the complete right combination to get your marks, no partial marks.

Which of the following set(s) will have a maximum?

- [ ] **A.** $[4,8)$
- [ ] **B.** $(4,8)$
- [ ] **C.** $(4, \infty)$
- ✔ [ ] **D.** $(-\infty, 8]$

Answer Key: D

Part 4 of 8 - D 1.0 Points

Question 4 of 8

1.0 Points

Instructions:

You can select one or more answers. Note you must get the complete right combination to get your marks, no partial marks.

Which of the following set(s) will have a minimum?

- [ ] **A.** $(-3, \infty)$
- [ ] **B.** $(-\infty, -2]$
- ✔ [ ] **C.** $[-3, -2)$
- [ ] **D.** $(-3, -2)$

Answer Key: C

Part 5 of 8 - E 1.0 Points

Question 5 of 8

1.0 Points

Instructions:

You can select one or more answers. Note you must get the complete right combination to get your marks, no partial marks.

Which of the following set(s) will have a supremum?

- [ ] **A.** $(4, \infty)$
- [x] **B.** $[4,8)$
- [x] **C.** $(-\infty, 8]$
- [x] **D.** $(4,8)$

Answer Key: B, C, D

Part 6 of 8 - F 1.0 Points

Question 6 of 8

1.0 Points

Instructions:

You can select one or more answers. Note you must get the complete right combination to get your marks, no partial marks.

Which of the following set(s) will have a infimum?

- [x] **A.** $(4, \infty)$
- [x] **B.** $[4,8)$
- [x] **C.** $(4,8)$
- [ ] **D.** $(-\infty, 8]$

Answer Key: A, B, C

Part 7 of 8 - G 2.0 Points

Question 7 of 8

2.0 Points

If a set S has an infimum, then it will have a minimum.

- [x] **A. False**
- [x] **B. True**

Answer Key: A

Part 8 of 8 - H 2.0 Points

Question 8 of 8

2.0 Points

Since the set of integers is a subset of the rational numbers (which is dense in $\mathbb{R}$), we

can deduce that the set of integers is dense in $\mathbb{R}$ also.

- ✔ ○ **A. True**
- ✔ ○ **B. False**

Answer Key: B

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