SASKATCHEWAN PRE-CALCULUS 20 · UNIT E

Absolute Value and Reciprocal Functions — Practice Test

Saskatchewan Pre-Calculus 20 • 25 questions

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **The graph of y equals the absolute value of x has its vertex at**

- **A** (0, 0)
- **B** (1, 0)
- **C** (0, 1)
- **D** (1, 1)

Understand It with Pulse | Flag a mistake

2 The function $y = \frac{1}{x - 5}$ has a vertical asymptote at x equals

A -5

B 5

C 0

D 6

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3 The domain of $y = \frac{1}{x}$ excludes

A 1

B -1

C 0

D 2

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4 The function $y = \frac{1}{x - 8}$ has a vertical asymptote at x equals

A -8

B 0

C 9

D 8

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5 The value of |-6| is

A 6

B -6

C 0

D 7

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6 **The solutions of |x| = 6 are**

A 6

B 6 and -6

C 6 and 9

D -6

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7 **The value of |-4| is**

A -4

B 0

C 4

D 5

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8 **The solutions of $|x - 9| = 3$ are**

- **A** 12 and 6
- **B** 12 and -12
- **C** 12
- **D** -6 and -12

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9 **The function $y = \frac{1}{x - 9}$ has a vertical asymptote at x equals**

- **A** 9
- **B** -9
- **C** 0
- **D** 10

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10 **The value of |-7| is**

A -7

B 7

C 0

D 8

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11 **The value of |-2| is**

A -2

B 0

C 2

D 3

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12 **The solutions of |x - 1| = 6 are**

- A 7 and -7
- B 7
- C 5 and -7
- D 7 and -5

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13 **The solutions of |x - 7| = 8 are**

- A 15 and -1
- B 15 and -15
- C 15
- D 1 and -15

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14 **The solutions of |x - 8| = 3 are**

A 11 and -11

B 11 and 5

C 11

D -5 and -11

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15 **The solutions of |x - 6| = 1 are**

A 7 and -7

B 7

C 7 and 5

D -5 and -7

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16 **The solutions of |x - 1| = 9 are**

A 10 and -10

B 10

C 8 and -10

D 10 and -8

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17 **The value of |-5| is**

A 5

B -5

C 0

D 6

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18 The function $y = \frac{1}{x - 2}$ has a vertical asymptote at x equals

- **A** -2
- **B** 2
- **C** 0
- **D** 3

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19 The solutions of $|x| = 8$ are

- **A** 8
- **B** 8 and 3
- **C** 8 and -8
- **D** -8

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20 **The solutions of |x - 8| = 4 are**

- A 12 and -12
- B 12
- C -4 and -12
- D 12 and 4

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21 **The value of |-9| is**

- A 9
- B -9
- C 0
- D 10

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22 **The solutions of |x| = 9 are**

A 9

B 9 and -9

C 9 and 8

D -9

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23 **The solutions of |x| = 2 are**

A 2

B 2 and 3

C 2 and -2

D -2

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24 The function $y = \frac{1}{x - 4}$ has a vertical asymptote at x equals

- **A** -4
- **B** 0
- **C** 5
- **D** 4

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25 The solutions of $|x - 8| = 2$ are

- **A** 10 and 6
- **B** 10 and -10
- **C** 10
- **D** -6 and -10

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ANSWER KEY

1. A
2. B
3. C
4. D
5. A
6. B
7. C
8. A
9. A
10. B
11. C
12. D
13. A
14. B
15. C
16. D
17. A
18. B
19. C
20. D
21. A
22. B
23. C
24. D
25. A

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