SASKATCHEWAN PRE-CALCULUS 20 · UNIT D · 25 QUESTIONS

Radical and Rational Expressions and Equations — Practice Test

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 In simplest form, $\frac{x^8}{x^3}$ is

- A x^8
- B x^3
- C x^11
- D x^5

Understand It with Pulse | Flag a mistake

2 Solve : the square root of x = 6 . The value of x is

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **Solve: $\frac{x}{8} = 8$. The value of x is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **In simplest form, $\sqrt{72}$ is**

A $\sqrt{72}$

B $6\sqrt{4}$

C $6\sqrt{2}$

D $2\sqrt{6}$

Understand It with Pulse | Flag a mistake

5 The non-permissible value for 1/x - 9 is x equals

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

Understand It with Pulse | Flag a mistake

6 The expression x - 3/x - 3 simplifies to, for x not equal to 3,

- A 0
- B 1
- C x
- D $\frac{1}{x}$

Understand It with Pulse | Flag a mistake

7 In simplest form, $x^{1}\frac{1}{x^{6}}$ is

- **A** x^{5}
- **B** $x^{1}1$
- **C** x^{6}
- **D** $x^{1}7$

Understand It with Pulse | Flag a mistake

8 Solve : the square root of x = 2 . The value of x is

ANSWER _____

Understand It with Pulse | Flag a mistake

9 Solve: $\frac{x}{5}$ = 5. The value of x is

ANSWER _____

Understand It with Pulse | Flag a mistake

10 In simplest form, $\sqrt{32}$ is

- A $4\sqrt{2}$
- B $\sqrt{32}$
- C $4\sqrt{4}$
- D $2\sqrt{4}$

Understand It with Pulse | Flag a mistake

11 The non-permissible value for 1/x - 2 is x equals

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

Understand It with Pulse | Flag a mistake

12 The expression x - 4/x - 4 simplifies to, for x not equal to 4,

- **A** 0
- **B** 1
- **C** x
- **D** $\frac{1}{x}$

Understand It with Pulse | Flag a mistake

13 In simplest form, $\frac{x^9}{x^3}$ is

- **A** x^9
- **B** x^6
- **C** x^3
- **D** x^12

Understand It with Pulse | Flag a mistake

14 **Solve : the square root of x = 8 . The value of x is**

ANSWER _____

Understand It with Pulse | Flag a mistake

15 **Solve:** $\frac{x}{4} = 4$**. The value of x is**

ANSWER _____

Understand It with Pulse | Flag a mistake

16 **In simplest form,** $\sqrt{98}$ **is**

A $\sqrt{98}$

B $7\sqrt{4}$

C $7\sqrt{2}$

D $2\sqrt{7}$

Understand It with Pulse | Flag a mistake

17 **The non-permissible value for 1/x - 4 is x equals**

A -4

B 0

C 5

D 4

Understand It with Pulse | Flag a mistake

18 **In simplest form, $\frac{x^7}{x^4}$ is**

A x^7

B x^4

C x^3

D x^11

Understand It with Pulse | Flag a mistake

19 **Solve : the square root of x = 4 . The value of x is**

ANSWER _____

Understand It with Pulse | Flag a mistake

20 **Solve: $\frac{x}{2} = 2$. The value of x is**

ANSWER _____

Understand It with Pulse | Flag a mistake

21 **In simplest form, $\frac{x^9}{x^6}$ is**

A x^9

B x^6

C x^3

D x^{15}

Understand It with Pulse | Flag a mistake

22 **Solve : the square root of x = 9 . The value of x is**

ANSWER _____

Understand It with Pulse | Flag a mistake

23 **Solve: $\frac{x}{6} = 6$. The value of x is**

ANSWER _____

Understand It with Pulse | Flag a mistake

24 **In simplest form, $\frac{x^6}{x^2}$ is**

A x^6

B x^2

C x^8

D x^4

Understand It with Pulse | Flag a mistake

25 **Solve : the square root of x = 3 . The value of x is**

ANSWER

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. D
2. 36
3. 64
4. C
5. A
6. B
7. A
8. 4
9. 25
10. A
11. C
12. B
13. B
14. 64
15. 16
16. C
17. D
18. C
19. 16
20. 4
21. C
22. 81
23. 36
24. D
25. 9

© 2026 Brett Robbins. All Rights Reserved.