

Exercises

1. Which of the following equations is incorrect?

(a) $3^2 \cdot 3^5 = 3^7$

(b) $(\sqrt{5})^{4/3} = 5^{2/3}$

(c) $3^2 \cdot 2^5 = 1$

(d) $(2^{-2})^{-2} = 16$

SOLUTION(a) This equation is correct: $3^2 \cdot 3^5 = 3^{2+5} = 3^7$.(b) This equation is correct: $(\sqrt{5})^{4/3} = (5^{1/2})^{4/3} = 5^{(1/2)(4/3)} = 5^{2/3}$.(c) This equation is incorrect: $3^2 \cdot 2^5 = 9 \cdot 8 = 72 \neq 1$.(d) This equation is correct: $(2^{-2})^{-2} = 2^{(-2)(-2)} = 2^4 = 16$.3. Use the binomial expansion formula to expand $(2 - x)^7$.**SOLUTION** Using the binomial expansion formula,

$$\begin{aligned}
 (2 - x)^7 &= \frac{7!}{7!0!} 2^7(-x)^0 + \frac{7!}{6!1!} 2^6(-x) + \frac{7!}{5!2!} 2^5(-x)^2 + \frac{7!}{4!3!} 2^4(-x)^3 + \frac{7!}{3!4!} 2^3(-x)^4 \\
 &\quad + \frac{7!}{2!5!} 2^2(-x)^5 + \frac{7!}{1!6!} 2(-x)^6 + \frac{7!}{0!7!} 2^0(-x)^7 \\
 &= 128 - 448x + 672x^2 - 560x^3 + 280x^4 - 84x^5 + 14x^6 - x^7
 \end{aligned}$$

5. Which of (a)–(d) are true for $a = 4$ and $b = -5$?

(a) $-2a < -2b$

(b) $|a| < -|b|$

(c) $ab < 0$

(d) $\frac{1}{a} < \frac{1}{b}$

SOLUTION

(a) True

(b) False; $|a| = 4 > -5 = -|b|$

(c) True

(d) False; $\frac{1}{a} = \frac{1}{4} > -\frac{1}{5} = \frac{1}{b}$

In Exercises 7–12, express the interval in terms of an inequality involving absolute value.

7. $[-2, 2]$

SOLUTION $|x| \leq 2$

9. $(0, 4)$

SOLUTION The midpoint of the interval is $c = (0 + 4)/2 = 2$, and the radius is $r = (4 - 0)/2 = 2$; therefore, $(0, 4)$ can be expressed as $|x - 2| < 2$.

11. $[-1, 8]$

SOLUTION The midpoint of the interval is $c = (-1 + 8)/2 = \frac{7}{2}$, and the radius is $r = (8 - (-1))/2 = \frac{9}{2}$; therefore, the interval $[-1, 8]$ can be expressed as $|x - \frac{7}{2}| \leq \frac{9}{2}$.In Exercises 13–16, write the inequality in the form $a < x < b$.

13. $|d| < 8$

SOLUTION $-8 < x < 8$

15. $|2x + 1| < 5$

SOLUTION $-5 < 2x + 1 < 5$ so $-6 < 2x < 4$ and $-3 < x < 2$ In Exercises 17–22, express the set of numbers x satisfying the given condition as an interval.

17. $|x| < 4$

SOLUTION $(-4, 4)$

19. $|x - 4| < 2$

SOLUTION The expression $|x - 4| < 2$ is equivalent to $-2 < x - 4 < 2$. Therefore, $2 < x < 6$, which represents the interval $(2, 6)$.

21. $|4x - 1| \leq 8$

SOLUTION The expression $|4x - 1| \leq 8$ is equivalent to $-8 \leq 4x - 1 \leq 8$ or $-7 \leq 4x \leq 9$. Therefore, $-\frac{7}{4} \leq x \leq \frac{9}{4}$, which represents the interval $[-\frac{7}{4}, \frac{9}{4}]$.

Answers For Calculus Early Transcendentals 4th

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