Examining Powers and Bases

Name:

Solve each problem.

1) Which equation has only 9 as a possible value of x?

A. $x^3 = 81$
B. $x^2 = 27$
C. $x^2 = 729$
D. $x^3 = 729$

2) Which equation has both 5 and -5 as a possible value of x?

A. $x^2 = 25$
B. $x^2 = 10$
C. $x^2 = 125$
D. $x^3 = 25$

3) Which equation has both 10 and -10 as a possible value of x?

A. $x^2 = 100$
B. $x^3 = 20$
C. $x^2 = 20$
D. $x^3 = 100$

4) Which equation has both 7 and -7 as a possible value of x?

A. $x^2 = 14$
B. $x^3 = 14$
C. $x^3 = 49$
D. $x^2 = 49$

5) Which equation has only 4 as a possible value of x?

A. $x^3 = 12$
B. $x^2 = 16$
C. $x^2 = 64$
D. $x^3 = 64$

6) Which equation has only 7 as a possible value of x?

A. $x^3 = 21$
B. $x^2 = 49$
C. $x^3 = 49$
D. $x^3 = 343$

7) Which equation has both 6 and -6 as a possible value of x?

A. $x^2 = 216$
B. $x^3 = 12$
C. $x^2 = 12$
D. $x^2 = 36$

8) Which equation has both 4 and -4 as a possible value of x?

A. $x^2 = 64$
B. $x^2 = 16$
C. $x^3 = 16$
D. $x^3 = 64$

9) Which equation has only 6 as a possible value of x?

A. $x^2 = 36$
B. $x^3 = 18$
C. $x^2 = 216$
D. $x^3 = 216$

10) Which equation has both 9 and -9 as a possible value of x?

A. $x^2 = 81$
B. $x^3 = 81$
C. $x^2 = 729$
D. $x^2 = 18$

Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

1-10	90	80	70	60	50	40	30	20	10	0

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C. $x^2 = 729$
D. $x^2 = 18$

Answers

1. D
2. A
3. A
4. D
5. D
6. D
7. D
8. B
9. D
10. A

1-10	90	80	70	60	50	40	30	20	10	0