



Solving with Negative Powers

Name: _____

Find the positive value of x.

Answers

1) $x^3 = 1,000^{-1}$

2) $x^3 = 8^{-1}$

1. _____

3) $x^3 = 27^{-1}$

4) $x^3 = 64^{-1}$

2. _____

5) $x^3 = 125^{-1}$

6) $x^3 = 216^{-1}$

3. _____

7) $x^3 = 343^{-1}$

8) $x^3 = 512^{-1}$

4. _____

9) $x^3 = 729^{-1}$

10) $x^3 = 1,000^{-1}$

5. _____

11) $x^2 = 1^{-1}$

12) $x^2 = 4^{-1}$

6. _____

13) $x^2 = 9^{-1}$

14) $x^2 = 16^{-1}$

7. _____

15) $x^2 = 25^{-1}$

16) $x^2 = 36^{-1}$

8. _____

17) $x^2 = 49^{-1}$

18) $x^2 = 64^{-1}$

9. _____

19) $x^2 = 81^{-1}$

20) $x^2 = 100^{-1}$

10. _____

1-10	95	90	85	80	75	70	65	60	55	50
11-20	45	40	35	30	25	20	15	10	5	0

**Find the positive value of x.**

1) $x^3 = 1,000^{-1}$

$\frac{1}{x^3} = \frac{1}{1,000}$

$x^3 = 1,000$

3) $x^3 = 27^{-1}$

$\frac{1}{x^3} = \frac{1}{27}$

$x^3 = 27$

5) $x^3 = 125^{-1}$

$\frac{1}{x^3} = \frac{1}{125}$

$x^3 = 125$

7) $x^3 = 343^{-1}$

$\frac{1}{x^3} = \frac{1}{343}$

$x^3 = 343$

9) $x^3 = 729^{-1}$

$\frac{1}{x^3} = \frac{1}{729}$

$x^3 = 729$

11) $x^2 = 1^{-1}$

$\frac{1}{x^2} = \frac{1}{1}$

$x^2 = 1$

13) $x^2 = 9^{-1}$

$\frac{1}{x^2} = \frac{1}{9}$

$x^2 = 9$

15) $x^2 = 25^{-1}$

$\frac{1}{x^2} = \frac{1}{25}$

$x^2 = 25$

17) $x^2 = 49^{-1}$

$\frac{1}{x^2} = \frac{1}{49}$

$x^2 = 49$

19) $x^2 = 81^{-1}$

$\frac{1}{x^2} = \frac{1}{81}$

$x^2 = 81$

2) $x^3 = 8^{-1}$

$\frac{1}{x^3} = \frac{1}{8}$

$x^3 = 8$

4) $x^3 = 64^{-1}$

$\frac{1}{x^3} = \frac{1}{64}$

$x^3 = 64$

6) $x^3 = 216^{-1}$

$\frac{1}{x^3} = \frac{1}{216}$

$x^3 = 216$

8) $x^3 = 512^{-1}$

$\frac{1}{x^3} = \frac{1}{512}$

$x^3 = 512$

10) $x^3 = 1,000^{-1}$

$\frac{1}{x^3} = \frac{1}{1,000}$

$x^3 = 1,000$

12) $x^2 = 4^{-1}$

$\frac{1}{x^2} = \frac{1}{4}$

$x^2 = 4$

14) $x^2 = 16^{-1}$

$\frac{1}{x^2} = \frac{1}{16}$

$x^2 = 16$

16) $x^2 = 36^{-1}$

$\frac{1}{x^2} = \frac{1}{36}$

$x^2 = 36$

18) $x^2 = 64^{-1}$

$\frac{1}{x^2} = \frac{1}{64}$

$x^2 = 64$

20) $x^2 = 100^{-1}$

$\frac{1}{x^2} = \frac{1}{100}$

$x^2 = 100$

Answers1. **10**2. **2**3. **3**4. **4**5. **5**6. **6**7. **7**8. **8**9. **9**10. **10**11. **1**12. **2**13. **3**14. **4**15. **5**16. **6**17. **7**18. **8**19. **9**20. **10**