



1. Find the value of x if $\log_x 16 = 4$

- (i) (-1) (ii) 1 (iii) 5 (iv) 2 (v) 3

2. Find the value of x if $\log_3 x = 3$

- (i) 26 (ii) 27 (iii) 30 (iv) 28 (v) 25

3. Find the value of x if $\log_4 16 = x$

- (i) 2 (ii) 0 (iii) 1 (iv) 3 (v) 4

4. Find the value of x if $\log_{\sqrt{4}}(9x+3) = 2$

- (i) $\frac{1}{3}$ (ii) $\frac{1}{11}$ (iii) $\frac{1}{9}$ (iv) $(-\frac{1}{9})$ (v) $\frac{1}{7}$

5. Find the value of x if $\log_x \frac{1}{4} = -2$

- (i) 2 (ii) 3 (iii) (-1) (iv) 4 (v) 1

6. Find the value of x if $\log(x+7) + \log(x-7) = \log 6$

- (i) $(\sqrt{55}, (-55))$ (ii) $(\sqrt{55}, (-\sqrt{55}))$ (iii) $(55, (-\sqrt{55}))$ (iv) $(55, (-55))$

7. Find the value of x if $\log_8(x+7) - \log_8(x-7) = 1$

- (i) 10 (ii) 7 (iii) 11 (iv) 8 (v) 9

8. Find the value of x if $\log_6(x^2 - 28) = 2$

- (i) $(8, (-7))$ (ii) $(9, (-7))$ (iii) $(9, (-8))$ (iv) $(8, (-8))$

9. Solve $\frac{\log x}{\log 7} = \frac{\log 81}{\log \frac{1}{9}}$

- (i) $\frac{1}{51}$ (ii) $\frac{1}{47}$ (iii) $(-\frac{1}{49})$ (iv) $\frac{1}{49}$ (v) $\frac{3}{49}$

10. If $\frac{\log(x^2+16)}{\log 2x^2} = 1$, find x

- (i) (-4,4) (ii) (-1,4) (iii) (-4,3) (iv) (-3,5) (v) (3,-4)

Assignment Key

1) (iv)

2) (ii)

3) (i)

4) (iii)

5) (i)

6) (ii)

7) (v)

8) (iv)

9) (iv)

10) (i)