

Name _____ Date _____

Solve each exponential equation for x .

19. $4^x = 256$

$4^x = 256$

$4^4 = 256$

$x = 4$

20. $6^{3x} = 216$

21. $2^{5-x} = \frac{1}{16}$

22. $3^{-2x} = \frac{1}{729}$

23. $4^{x+3} = 4$

24. $\frac{1}{5^{x+4}} = 625$

25. $-6^{x-2} = \frac{1}{-1296}$

26. $\frac{1}{2^{x-6}} = \frac{1}{4}$