

Exponential Equations (Easier)

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Solve each equation.

1) $5^{-n} = 125$

2) $5^{2r} = 5^{-3r}$

3) $4^{-2r} = 4^{r-3}$

4) $4^{-2x} = 64$

5) $2^{2n} = 2^{2-2n}$

6) $5^{-m} = 25$

7) $6^{2-2m} = 6^{2m}$

8) $2^{-n-2} = \frac{1}{8}$

9) $2^{-2p} = 2^{2p-3}$

10) $5^{-x+1} = 125$

$$11) 4^x = \frac{1}{64}$$

$$12) 27^{-2n} = \frac{1}{9}$$

$$13) \left(\frac{1}{6}\right)^{-2n} = 6^2$$

$$14) 64^{-3n} = 16$$

$$15) 216^{-2b+2} = 6^2$$

$$16) 81^{3m} = 27^{2m+2}$$

$$17) 25^{-n-2} = 625$$

$$18) 9^{-3m} = 27$$

$$19) 64^{3p+2} = \frac{1}{16}$$

$$20) \left(\frac{1}{625}\right)^{n+1} = 25$$