

Notes 6.2 - Solving Exponential Equations

Fill in the Blanks:

$$\frac{1}{2} = 2^{-1}$$
$$0.5 = 2^{-1}$$
$$\frac{1}{2} = 2^{-1}$$

om + 2um asad

3

Rewrite 8 as .

Power of 2 power (3x3=9)

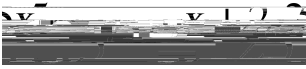
Bases "cancel"

Solve.

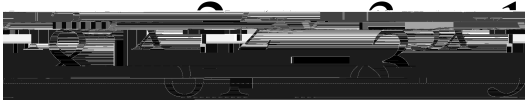
$$2^{2x-1} = 64$$

$$2^{2x-1} = 6^x$$

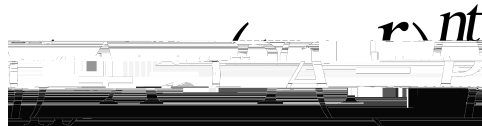
Solve.



$$8^{4x+2} = 8$$



Compound Interest



An investment account pays 4.2% annual interest compounded monthly. If \$2500 is invested in the account, what will be the balance after 15 years?

Find the account balance after 20 years if \$100 is placed in an account that pays 1.2% interest compounded twice monthly.

