Exponents extensions

Find the units digit of  $4^{55}$ 

$$4^{2} = 16$$
 odd - ends in 4  
 $4^{3} = 64$  even - ends in 6  
 $4^{4} = 256$   
 $4^{5} = 1624$ 

Find t

1

ad the units digit of 
$$3^{4287}$$
 4(1071)  
 $3^{1} = 3$  ends with a 7  
 $3^{2} = 9$   
 $3^{3} = 27$   
 $3^{3} = 27$   
 $3^{4} = 81$ ,  $3^{8}$ ,  $3^{12}$ ,  $3^{16}$ ,  $3^{20}$  .... mult of 4  
 $3^{5} = 243$   
 $3^{6} = 729$ 

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