<b>7.</b> $7 - 4^{x+1} = 18$	<b>8.</b> $10 \cdot 5^{3k-3} = 40$
<b>9.</b> $4 \cdot 3^n + 15 = 359$	<b>10.</b> $-2 \cdot 5^p + 7 = -63$
<b>11.</b> $5 \cdot 9^{\nu-1} + 1 = 181$	<b>12.</b> $8 \cdot 11^{7k} - 3 = 213$
<b>13.</b> $6 \cdot 16^{7y+2} - 2 = 82$	<b>14.</b> $3 \cdot 8^{3-7n} + 10 = 94$
13. 0·10 / -2 = 82	14. 3·8 +1U = 94

Name:	Date:
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Main Ideas/Questions	Notes/Examples		
WARM-UP Using a common base to solve an exponential equation.	<b>Directions:</b> Solve the equations below using $1.\ 5^{n+10} = 25$	ing a common base. 2. 9 <sup>a+2</sup> = 27 <sup>4a-2</sup>	
What if a common base is NOT possible?	2 TAKE THE LOG of both sides.	TAKE THE LOG of both sides.	
	You may need to EXPAND the log. (Use the Power Rule)  SOLVE and CHECK FOR EXTRANEOUS SOLUTIONS.  *Rounded answers may not produce the exact same answer, but will be very close.		
Examples		<b>I.</b> 8 <sup>m-7</sup> = 92	
	<b>5.</b> 4·7 <sup>n</sup> = 148	$5.4^{3w} - 5 = 3$	