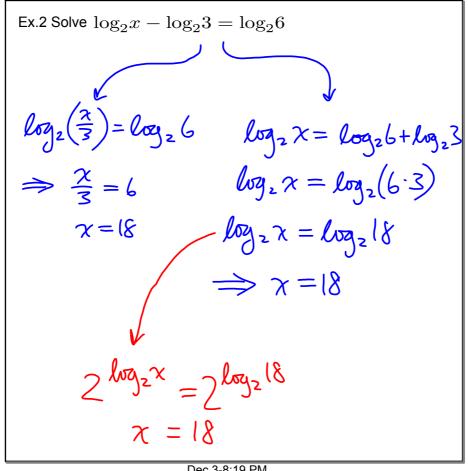


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Ex.3 Solve 
$$6^{3x} = 4^{2x-3}$$
 $\log (6^{3x}) = \log(4^{2x-3})$ 
 $(3x) \log 6 = (2x-3) \log 4$ 
 $3x \log 6 = 2x \log 4 - 3 \log 4$ 
 $3x \log 6 - 2x \log 4 = -3 \log 4$ 
 $3x \log 6 - 2 \log 4 = -3 \log 4$ 
 $(3 \log 6 - 2 \log 4) = -3 \log 4$ 
 $(3 \log 6 - 2 \log 4) = -3 \log 4$ 
 $x = \frac{-3 \log 4}{(3 \log 6 - 2 \log 4)}$ 
 $x = \frac{-3 \log 4}{(3 \log 6 - 2 \log 4)}$ 

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Ex.5 Solve 
$$\log(x + 2) + \log(x - 1) = 1$$

 $\log\left[(\chi+2)(\chi-1)\right]=1$ 

check your solution!

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Assigned Work:

p.485 # 2, 8, 10, 17

for next class p.491 # 4, 5, **7**, 12

p.485 # 4, 6bc, 7, 11 p.492 # 3, 9

work period?

P.485-106

$$\chi = \log_3 25$$

$$= \log_{10} 25$$

$$\log_{10} 3$$

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$$485-17c$$

$$3(2)^{x} = 4^{x+1}$$

$$3(2)^{x} = (2^{2})^{x+1}$$

$$3(2)^{x} = 2^{2x+2}$$

$$2^{x}$$

$$3 = 2^{x+2}$$

$$x+2 = \log_{2} 3$$

$$x+2 = \log_{2} 3$$

$$x = \frac{\log_{2} 3}{\log_{2} 2} - 2$$

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$$485 - 172$$

$$3(2)^{2} = 4$$

$$\log [3(2)^{2}] = \log 4^{2}$$

$$\log 3 + \log 2^{2} = (x+1) \log 4$$

$$\log 3 + x \log^{2} = x \log 4 + \log 4$$

$$\vdots$$

$$x = \underline{\qquad \qquad }$$

$$491-7d$$

$$\log (2x+1) + \log (x-1) = \log 9$$

$$\log \left( (2x+1)(x-1) \right) = \log 9$$

$$\Rightarrow (2x+1)(x-1) = 9$$

$$\vdots$$

$$= 0$$

$$\vdots$$

$$( ) ( ) = 0$$

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