| м | EXE | rcise | Set | 10 | |
|---|-----|-------|-----|----|--|
| - | | | JU | | |

| P | 9 | NP | ng | mp. v 2 | ~Pv9-3~9 | |
|-------|-----|------|-------|----------|------------|--------------|
| T | + | P | P | T | Į. | |
| T | P | P | 十 | P | Ť | |
| P | T | T | P | T | ę | |
| P | P | T | 1 | TIT | Ti | is it stones |
| for a | anh | 7 45 | 1 228 | 416 8165 | exe book H | w. Jul off |

I-PARG-ST

| P | . | ~ | ng | Pr ~g | Pn~q>r | |
|---|----------|---|----|---------|----------|--------------|
| T | T | T | f | f | LOOK WIL | (A 1818) C |
| T | 工 | f | f | F | T | 17,110 |
| T | P | 丁 | T | T | T | |
| T | P | P | T. | J. Tich | 11-1 | I mint on a |
| F | T | 工 | f | f | FITIA | 20031 5 1199 |
| £ | 丁 | F | j | F | T | |
| P | 5 | T | T | f | 7 9 | v (p. 29) |
| P | .P | P | 士 | P | MIT | |
| 1 | 1481.00 | | | | | |

| 9 | | - | rvi | 1 147 | | | | | |
|-------------|---------------------------|------------------------------------|-------------------------------------|--|---------------------------------|---|---------------------------|------------------------------------|---------------------------|
| P | q | × 11 | NF | 20.01 | Application 1 | and construct | i car | <u>A</u> | |
| | 7 | THE Y | ^ | PANT | gur. | PART - 9 | vr | wi mi | |
| T | 0-0 | 0 | top to | P. P. J. | Til | him bfi | - | 1 111 | |
| T | 0 | F | TIL | YTI | TI | ti, continu | ih ila | W | |
| T | 0 | 7 | F | 1 | T | f | | | |
| D | F | | T | No.T To | A . Live | f. | - 1 | | |
| 0 | | 7 | F- | 1 · F | T | f | | San Const | - |
| 0 | 0 | - - F | T | 1-2- | T | F . | 79 | <u> </u> | - |
| 0 | 0 | 0 | F | 1 1 | 17 | F | 3 4 7 3 | 36.2 ⁸ - 65. | To the second |
| -F- | F | - F | T | | F | T | | <u> </u> | |
| | | | | | AV.P | Pe 9 | | 0 9 | |
| Shoot | la | CP | r) < | Cd | ~1 | | | | - |
| | -9-10- | | | > 1 | >1-) | | | | 1 |
| | | | | | | | | | |
| 12 1 | 150 H | 1.91 | Cal eq | uislalen | 6 estal | olished in | Exam | nPle 1 | 2.3. |
| 12 | use th | e logi | cal eq | uivalen | 6 estal | plished in to rewrite | Exam | nPle 1. | 2.3, |
| p. | 19 | V= | (Por | 11(9 | >r), | to rewrite | the f | allowing | |
| p. | 19 | V= L(A | (Por Sume t |) 1 (9 hat x | >r), represen | to rewrite | the f | allowing | |
| P. | 19 | r = + (A: if | (P)r ssume t $2 > 2$ | hat x | >r), represen | to rewrite | the f | allowing | |
| p. | 19 | r = + (A: if | (Por Sume t | hat x | represent | to rewrite | the f | allowing | |
| sta Salu | itement | F. (A: if if x | (P > r ssume + x > 2 >2 th | hat x or $x < 2$ on $x^2 > 2$ | represent 2, the | to rewrite ts a fixed n x2>4 if x<- | the f I read 2 then | lowing numb | er.)_ |
| Salut | itement | r= t. (A: if if x tuth | Sume to 2 > 2 the tables | hat x or x2 on x2 > | represent -2, the 4, and | to rewrite ts of fixed n x2>4 if x<- allowing log | the foreal | ellowing numb | er.) |
| Salut | itement ion-> use t | F. (A: if if x ruth de af | sume to 2 > 2 the tables | hat x or x2 on x2 > to veri | represent -2, the 4, and | to rewrite ts a fixed n x2>4 if x<- | the foreal | lowing numb | er.) |
| Salut | itement | F. (A: if if x ruth de af | sume to 2 > 2 the tables | hat x or x2 on x2 > to veri | represent 2, the 4, and explana | to rewrite ts of fixed n x2>4 if x<- allowing log | the foreal | ellowing numb | er.) |
| Salut | itement ion-> use t | F. (A: if if x ruth de af | sume to 2 > 2 the tables | hat x or x2 on x2 > to veri | represent -2, the 4, and | to rewrite ts of fixed n x2 > 4 if x<- allowing log tion with | the formal seal | ellowing numb 22 elluisa ransw | er.) en.6s. ers. |
| Salut | itement ion-> use t | F. (A: if if x ruth de af | sume to 2 > 2 the tables | hat x or x2 on x2 > to veri | represent 2, the 4, and explana | to rewrite ts a fixed n x² > 4 if x<-i allowing log tion with | the formal seal | ellowing numb 22 elluisa ransw | er.) en.6s. ers. |
| Salut | itement ion-> use t | F. (A: if if x ruth de af | sume to 2 > 2 the tables | hat x or x2 on x2 > to veri | represent 2, the 4, and explana | to rewrite ts of fixed n x2 > 4 if x<- allowing log tion with | the formal same | equival Pyq | er.) en.6s. en.6s. en.6s. |
| Salut | itement ion-> use t | F. (A: if if x ruth de af | sume to 2 > 2 the tables | hat x or x2 on x2 > to veri | represent 2, the 4, and explana | to rewrite ts a fixed n x2>4 if x<-i allowing log tion with P-9 | the formal same | equival Pyq | er.) en.6s. en.6s. en.6s. |
| Salut | itement ion-> use t | F. (A: if if x ruth de af | sume to 2 > 2 the tables | hat x or x2 on x2 > to veri | represent 2, the 4, and explana | to rewrite ts a fixed n x2>4 if x<-i allowing log tion with P-9 | the formal same | equival Pyq | er.) en.6s. en.6s. alway |

| 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | DATE |
|---------------------------------------|---|
| - In 16 and 17 write each | h of the two statements in symbolic |
| from and determine who | ther they are ladically equivalent. |
| Include a truth table or | nd a few words of explanation. |
| 16. If you paid full Pri | 6, you didn't buy it at Crown books. |
| You didn't buy it at (| Youn books or you Paid full Price. |
| | |
| Solution > let P'represent " you | Paid full Price " and of represent |
| " you didn't buy it at cro | un books". Thus, "if you Paid full |
| Price, You didn't buy it at | Crown books" has the from P-9. |
| and "You didn't buy it at C | rown books or you Paid full Prie" |
| has the form QVP. | |
| | 2 |
| P 9 P 9 9 V | |
| | These two statements aren't |
| TFFT | |
| ESP TT T | |
| P P T | |
| | Statement (250,000 that on 1220 |
| | 1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 |
| 19 True or false? The ne | gation of "If Sue is luiz's mother; |
| then Deana is his Cou | sin" is " If sue is luiz's mother, |
| | ausin" |
| | TO COULD IN TO THE |
| | of an if then statement is not an |
| if then statement it is a | |
| "Sue 15 Luic 5 Moine, a | nd Deana is not his Gusin." |
| | |
| | |
| | |
| | |

| 20 write negations for each of the following statements. |
|--|
| assume that the variables reflesent fixed pudions |
| or entities as appropriate.) |
| to a series of the series of t |
| a if Pisasquare, then Pisa rectangle. |
| Die of a larget a Coctangle. |
| sin Po sin sign signally at the district |
| Il n is Prime then n is add or n 15 |
| s liting - n is Prime and both n is not odd and n is not 2. |
| or n'is Prime and n'is neither odd not |
| |
| P. IP Tom is Ann's father, then Jim is her uncle and sue is |
| |
| salution Tom is Ann's father and either Jim is not her uncle or sue |
| C- A- L V must |
| had been as the wale att should be |
| 23 write the Converse and inverse for each statement of |
| exercise 20. |
| |
| Solution = a Goverse: if Pis a rectangle, then Pis a square |
| inverse: if Pisnot a square, then Pis not a rectangle |
| |
| d anverse if n'is add or n'is 2, then n'is Prime |
| inverse: if n is not frime, then n is not odd and |
| n is not 2 |
| C P de 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| P_Converse: if Jim is Ann's uncle and sue is her aunt |
| than tom is her father |
| 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 1 2 1 |
| Inverse if Tom is not Ann's factor, then Jim is not her unde or sue is not her aunt. |
| her uncle of sue is not the source |
| |