PAIR EXERCISE- TWO COLUMN FORMAT COMBINING ENGLISH AND MATH

With your partner, discuss each step of the process of combining the given rational expressions and explain your steps in English in the right hand column. Try to reach an agreement on the language you wish to use BEFORE writing your explanations.

|  |  |
| --- | --- |
|  2X + 7  $X^{2}$ – 16 X - 4 | This is the starting point. What operations, rules or procedures do you need to use to move to the next box? |
|  2X + 7  (X+4)(X-4) (X-4) |  |
| LCD= (X + 4)(X - 4) |  |
|  2X - 7 (X+4)  (X-4)(X+4) (X-4)(X+4) |  |
| 2X + 7X + 28(X+4)(X-4) |  |
|  9X + 28 (X+4)(X-4) |  |

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|  |  |
| --- | --- |
|  3 + X + 5 - 3  X + 1 $X^{2}$ - 1 X - 1 | This is the starting point. What operations, rules or procedures do you need to use to move to the next box? |
|  3 (X + 5) - 3  X + 1 (X+1)(X-1) X - 1 |  |
| LCD (X+1)(X -1) |  |
|  3 (X-1) + X+5 - 3 (X+1)(X+1)(X-1) (X+1)(X-1) (X-1)(X+1) |  |
| 3X - 3 + X + 5 - 3X - 3 (X + 1)(X-1) |  |
|  (X - 1)  (X+1)(X-1) |  |
|  (X - 1)  (X+1)(X-1) |  |

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|  |  |
| --- | --- |
|  2X + 5 - 3X -1 + 5 $X^{2}$+ 3X - 18 $X^{2}$+ 4X -12 X-2 | This is the starting point. What operations, rules or procedures do you need to use to move to the next box? |
|  2X + 5 - 3X -1 + 5 (X+6)(X-3) (X+6)(X-2) (X-2) |  |
| LCD ((X-3)(X+6)(X-2) |  |
|  (2X + 5)(X-2) - (3X -1)(X-3) + 5(X-3)(X+6) (X+6)(X-3)(X-2) (X-3)(X-2)(X-3) (X-2)(X-3)(X+6) |  |
|  |  |
|   (X + 6)(X - 3)(X - 2) |  |

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|  |  |
| --- | --- |
|  4X - 5  (2X + 5) (X + 3 | This is the starting point. What operations, rules or procedures do you need to use to move to the next box? |
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