

Casey Hull

Lesson 8-5

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	2	4	4	
0	4	0	8	2
0	8	11	1	4
5	8	6	1	4
0	8	1	1	4
8	8	6	6	4
	9	7	6	

1

$$\begin{array}{|c|c|c|} \hline X & -2 & \\ \hline X & X^2 & -2X \\ \hline -2X & 4 & \\ \hline \end{array} \rightarrow 4X \rightarrow (X-2)(X-2)$$

2

$$\begin{array}{|c|c|c|} \hline X & & \\ \hline X & X^2 & \\ \hline & & -4 \\ \hline \end{array} \rightarrow -4X$$

Squares can't be negative

3

$$\begin{array}{|c|c|c|} \hline 3X & & \\ \hline 3X & 9X^2 & \\ \hline & & -12 \\ \hline \end{array} \rightarrow 12$$

you can't get twelve with factors of four

4

$$\begin{array}{|c|c|c|} \hline X & X^2 & 1X \\ \hline 1 & 1X & 1 \\ \hline \end{array} \rightarrow 2X \rightarrow (X+1)(X+1)$$

5

$$\begin{array}{|c|c|c|} \hline X & & -3 \\ \hline X & X^2 & -3X \\ \hline -3 & -3X & 9 \\ \hline \end{array} \rightarrow -6X \rightarrow (X-3)(X-3)$$

6

$$\begin{array}{|c|c|c|} \hline X & & \\ \hline X & X^2 & \\ \hline & & -9 \\ \hline \end{array} \rightarrow -6X$$

Squares can't be negative

7

$$\begin{array}{|c|c|c|} \hline X & 12 & \\ \hline X & X^2 & 12X \\ \hline 12 & 12X & 144 \\ \hline \end{array} \rightarrow 24X \rightarrow [(X+12)(X+12)] \rightarrow (X+12)(X+12) + (10+12)(10+12) + (11)(11) + (22)(22) + \dots$$

14

$$\begin{array}{|c|c|c|} \hline 2X & -1 & \\ \hline 2X & 4X^2 & -2X \\ \hline -1 & -2X & 1 \\ \hline \end{array} \rightarrow -4X \rightarrow (2X-1)(2X-1)$$



15

$4x^2$		

$-4x$

SQUARES CAN'T BE NEGATIVE  
(I've said this before)

16

$6x$	$36x^2$	$-6x$
$-1$	$-6x$	$1$

$-12x$

$$(6x-1)(6x-1)$$

17

$5x$	$25x^2$	

$10x$

Factors of four don't add up to  
ten. (five, or four)

18

$9x$	$9x^2$	$9x$
$3$	$9x$	$9$

$18x$

$$(9x+3)(3x+3)$$

19

$4x$	$16x^2$	$-20x$
$-5$	$-20x$	$25$

$-40x$

$$(4x-5)(4x-5)$$

20

$2x$	$4x^2$	

$-44x$