## Unit 7 Lesson 14: Completing the Square (Part 3)

### 1 Perfect Squares in Two Forms (Warm up)

#### Student Task Statement

Elena says, “ can be expanded into . Likewise, can be expanded into .”

Find an error in Elena’s statement and correct the error. Show your reasoning.

### 2 Perfect in A Different Way

#### Student Task Statement

1. Write each expression in standard form:
2. Decide if each expression is a perfect square. If so, write an equivalent expression of the form . If not, suggest one change to turn it into a perfect square.

### 3 When All the Stars Align

#### Student Task Statement

1. Find the value of to make each expression in the left column a perfect square in standard form. Then, write an equivalent expression in the form of squared factors. In the last row, write your own pair of equivalent expressions.

|  |  |
| --- | --- |
| * standard form | * squared factors |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

1. Solve each equation by completing the square:

### 4 Putting Stars into Alignment (Optional)

#### Student Task Statement

Here are three methods for solving .

Try to make sense of each method.

Method 1:

Method 2:

Method 3:

Once you understand the methods, use each method at least one time to solve these equations.



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