GSE Algebra 1 **8.6 – Complete the square notes** Name: \_\_\_\_\_\_\_\_\_\_

Factor the following.

$8x^{2}+34x-9$ $3x^{2}-300$ $4x^{2}-169=0$

Complete the square to solve for x.

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| 1. $x^{2}+20x-36=0$
 | 1. $x^{2}-20x+6=0$
 | 1. $x^{2}+6x=-5$
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**Now let’s complete the square when** $a\ne 1$**.**

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| 1. $3x^{2}-6x-2=0$
 | 1. $4x^{2}+12x-1=0$
 | 1. $2x^{2}-20x-62=0$
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| 1. $5x^{2}-10x-21=0$
 | 1. $7x^{2}-14x=56$
 | 1. $3x^{2}-9x-1=0$
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