**Inverse Functions with Completing the Square**

Find the inverse function for each of the following functions:

(a) for

(b) for

(c) for

(d) for

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(a) for

(b) for

(c) for

(d) for

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(a) for

(b) for

(c) for

(d) for

The function is defined as

where

(a) Find the inverse function in the form

(b) Solve

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