COMPLETING THE SQUARE

In questions **1–4** and **6–13**, write the number to be added to complete the square.

1 $x^2 + 4x$ **2** $x^2 - 6x$ **3** $x^2 + 14x$ **4** $x^2 + 2x$

6 $x^2 - x$ **7** $x^2 + 5x$ **8** $x^2 + 3x$ **9** $x^2 - 7x$

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10 $x^2 + x$ **11** $x^2 + 2ax$ **12** $x^2 - 2bx$ **13** $x^2 + cx$

14 The square is completed for the expression $x^2 - ax$. Indicate whether the following statements would be correct or incorrect.

(a) $x^2 - ax + \dfrac{a^2}{2}$ (b) $x^2 - ax + \dfrac{a^2}{4}$ (c) $\left(x - \dfrac{a}{2}\right)^2$ (d) $x^2 - ax + a^2$