Problem 1 *Complete the square on the following quadratic:*

$$4\,x^2 - 80\,x + 396 = \boxed{4}(\boxed{x - 10})^2 + \boxed{-4}$$

Feedback(*`attempt`*): *Don't forget to factor out any leading term, like the* 4 *(ignore if this is 1, since this is randomly generated). Once you have factored out the leading term (if needed), you need to divide the resulting middle term* $(-\frac{5}{2})$ *and then square it to get* $\frac{25}{4}$*, which you need to add and subtract to the expression.*

Problem 2 *Complete the square on the following quadratic:*

$$-5\,x^2 - 30\,x - 41 = \boxed{-5}(\boxed{x + 3})^2 + \boxed{4}$$

Feedback(*`attempt`*): *Don't forget to factor out any leading term, like the* -5 *(ignore if this is 1, since this is randomly generated). Once you have factored out the leading term (if needed), you need to divide the resulting middle term* $(-\frac{3}{5})$ *and then square it to get* $\frac{9}{25}$*, which you need to add and subtract to the expression.*

Problem 3 *Complete the square on the following quadratic:*

$$-x^2 + 14\,x - 41 = \boxed{-1}(\boxed{x - 7})^2 + \boxed{8}$$

Feedback(*`attempt`*): *Don't forget to factor out any leading term, like the* -1 *(ignore if this is 1, since this is randomly generated). Once you have factored out the leading term (if needed), you need to divide the resulting middle term* (7) *and then square it to get* 49*, which you need to add and subtract to the expression.*

Problem 4 *Complete the square on the following quadratic:*

$$-2\,x^2 - 20\,x - 46 = \boxed{-2}(\boxed{x + 5})^2 + \boxed{4}$$

Feedback(*`attempt`*): *Don't forget to factor out any leading term, like the* -2 *(ignore if this is 1, since this is randomly generated). Once you have factored out the leading term (if needed), you need to divide the resulting middle term* $(-\frac{5}{2})$ *and then square it to get* $\frac{25}{4}$*, which you need to add and subtract to the expression.*