

Completing the square practice, with answer key

Find the value that completes the square and then rewrite.

1) $m^2 - 30m + \underline{\quad}$

2) $p^2 + 18p + \underline{\quad}$

3) $n^2 + 10n + \underline{\quad}$

4) $x^2 + 30x + \underline{\quad}$

5) $a^2 + 14a + \underline{\quad}$

6) $p^2 - 3p + \underline{\quad}$

7) $n^2 - 12n + 32$

8) $x^2 + 24x + 14$

Answers to

1) $225; (m - 15)^2$

5) $49; (a + 7)^2$

2) $81; (p + 9)^2$

6) $\frac{9}{4}; \left(p - \frac{3}{2}\right)^2$

3) $25; (n + 5)^2$

7) $(n-6)^2 - 4$

4) $225; (x + 15)^2$

8) $(x + 12)^2 - 130$