

Completing the Square (when $a=1$)

Date _____ Period _____

Convert each quadratic expression from standard form to vertex form by completing the square.

1) $k^2 - 8k - 65$

2) $b^2 + 18b + 80$

3) $n^2 - 4n - 32$

4) $n^2 - 2n - 35$

5) $n^2 + 16n - 80$

6) $m^2 - 28m + 171$

7) $n^2 + 16n - 80$

8) $n^2 - 20n - 69$

9) $x^2 - 12x - 28$

10) $r^2 - r - 20$