

## 13.2 Homework

Date \_\_\_\_\_ Period \_\_\_\_\_

**Solve each equation by taking square roots.**

1)  $4x^2 + 9 = -62$

2)  $4b^2 - 4 = 124$

**Solve each equation by completing the square.**

3)  $m^2 + 4m + 5 = 8$

4)  $x^2 - 10x - 71 = 4$

**Factor the common factor out of each expression.**

5)  $-27n^3 + 72n^2 - 18$

6)  $16n^2 + 56n - 24$

**Factor each completely.**

7)  $p^2 + 4p$

8)  $x^2 + 14x + 45$

## Answers to 13.2 Homework

1) No solution.

4)  $\{15, -5\}$

8)  $(x + 5)(x + 9)$

2)  $\{4\sqrt{2}, -4\sqrt{2}\}$

5)  $9(-3n^3 + 8n^2 - 2)$

3)  $\{-2 + \sqrt{7}, -2 - \sqrt{7}\}$

6)  $8(2n^2 + 7n - 3)$

7)  $p(p + 4)$