

Name:

11.4 Extension: Completing the square

1. Expand each binomial-squared expression to the form $ax^2 + bx + c$.

(a) $(x + 3)(x + 3)$

(c) $(x + 5)^2$

(b) $(x + 2)^2$

(d) $(x + 7)^2$

2. Simplify each radical.

(a) $\sqrt{50}$

(c) $\sqrt{27}$

(b) $\sqrt{18}$

(d) $\sqrt{24}$

3. Solve for the appropriate variable (h and r).

(a) $Area = \frac{1}{2}(14.8)h = 62.9$

(b) $Area = \pi r^2 = 483$