

## Section 9.1 Worksheet

Name: \_\_\_\_\_

Evaluate the expression.

1.  $\sqrt{169}$

2.  $-\sqrt{81}$

3.  $\pm\sqrt{400}$

4.  $-\sqrt{121}$

5.  $-\sqrt{196}$

6.  $\sqrt{900}$

7.  $-\sqrt{100}$

8.  $\pm\sqrt{64}$

Determine whether the number is a perfect square.

9. 34

10. 49

11. 25

12. 500

13. -9

14. 101

15. 8

16. 81

Evaluate the expression. Give exact value if possible. Otherwise, approximate to the nearest hundredth.

17.  $\sqrt{16}$

18.  $-\sqrt{64}$

19.  $-\sqrt{49}$

20.  $\pm\sqrt{225}$

21.  $-\sqrt{36}$

22.  $\pm\sqrt{145}$

23.  $\sqrt{32}$

24.  $-\sqrt{70}$

Evaluate  $\sqrt{b^2 - 4ac}$  for the given values.

25.  $a = 1, b = 5, c = -6$

26.  $a = 2, b = -9, c = 7,$

27.  $a = 10, b = -21, c = 9$

28.  $a = 3, b = -4, c = 0$

Evaluate the expression. Round the results to the nearest hundredth.

29.  $\frac{6 \pm 2\sqrt{3}}{5}$

30.  $2 \pm 5\sqrt{3}$

31.  $\frac{-5 \pm 2\sqrt{3}}{3}$

32.  $\frac{5 \pm 3\sqrt{3}}{2}$

33.  $-2 \pm 3\sqrt{5}$

34.  $\frac{8 \pm 3\sqrt{2}}{-2}$