Name:

Date:

Use the Quadratic Formula and the Discriminant

Find the value of the discriminant of each quadratic equation.

1) $-x^2 + x + 1 = 0$

2) $2x^2 + x + 5 = 0$

3) $x^2 + 7x + 4 = 0$

4) $-x^2 - 3x + 2 = 0$

5) $2x^2 - 4x + 1 = 0$

6) $-2x^2 - x + 6 = 0$

7) $x^2 - 11x + 3 = 0$

8) $-x^2 - 2x - 9 = 0$

9) $3x^2 + 6x + 3 = 0$

10) $13x^2 - 7x + 1 = 0$

11) $-x^2 + 6x + 7 = 0$

12) $19x^2 + 8x = 0$

13) $3x^2 - 5x - 2 = 0$

14) $-x^2 + 7x - 2 = 0$

15) $-4x^2 + 2x + 1 = 0$

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Use the Quadratic Formula and the Discriminant

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Answers

Find the value of the discriminant of each quadratic equation.

1) $-x^2 + x + 1 = 0 \Rightarrow \Delta = 5$ two solutions

2) $2x^2 + x + 5 = 0 \Rightarrow \Delta = -39$ no solution

3) $x^2 + 7x + 4 = 0 \Rightarrow \Delta = 33$ two solutions

4) $-x^2 - 3x + 2 = 0 \Rightarrow \Delta = 17$ two solutions

5) $2x^2 - 4x + 1 = 0 \Rightarrow \Delta = 8$ two solutions

6) $-2x^2 - x + 6 = 0 \Rightarrow \Delta = 49$ two solutions

7) $x^2 - 11x + 3 = 0 \Rightarrow \Delta = 109$ two solutions

8) $-x^2 - 2x - 9 = 0 \Rightarrow \Delta = -32$ no solution

9) $3x^2 + 6x + 3 = 0 \Rightarrow \Delta = 0$ one solution

10) $13x^2 - 7x + 1 = 0 \Rightarrow \Delta = -3$ no solution

11) $-x^2 + 6x + 7 = 0 \Rightarrow \Delta = 64$ two solutions

12) $19x^2 + 8x = 0 \Rightarrow \Delta = 64$ two solutions

13) $3x^2 - 5x - 2 = 0 \Rightarrow \Delta = 49$ two solutions

14) $-x^2 + 7x - 2 = 0 \Rightarrow \Delta = 41$ two solutions

15) $-4x^2 + 2x + 1 = 0 \Rightarrow \Delta = 20$ two solutions