



7.  $\sqrt{21} : \sqrt{21}$

8.  $-2\sqrt{48} \quad y : \frac{48}{x}$   
 $= -2\sqrt{16} \sqrt{3}$   
 $= -2(4)\sqrt{3} = -8\sqrt{3}$

9.  $5\sqrt{16}$   
 $= 5(4)$   
 $= 20$

10.  $\sqrt{\frac{81}{16}} = \frac{9}{4}$

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**FIND THE DISCRIMINANT**

We know that standard form of a quadratic equation is  $ax^2 + bx + c = 0$

The discriminant is a number formed from standard form of a quadratic equation and equal to  $b^2 - 4ac$ .

Find the discriminant.

11.  $x^2 - 3x + 2 = 0$   
 $a: 1 \quad b: -3 \quad c: 2$   
 $b^2 - 4ac = (-3)^2 - 4(1)(2) = 9 - 8 = 1$

12.  $3x^2 - 5x + 1 = 0$   
 $a: 3 \quad b: -5 \quad c: 1$   
 $b^2 - 4ac = (-5)^2 - 4(3)(1) = 25 - 12 = 13$

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13.  $4x^2 - 4x + 1 = 0$   
 $a: 4 \quad b: -4 \quad c: 1$   
 $b^2 - 4ac = (-4)^2 - 4(4)(1) = 16 - 16 = 0$

14.  $x^2 - 7 = 0$   
 $a: 1 \quad b: 0 \quad c: -7$   
 $b^2 - 4ac = 0^2 - 4(1)(-7) = 0 + 28 = 28$

15.  $x^2 - 6x + 9 = 0$

16.  $2x^2 + 4x = 1$

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Simplify the square root of each discriminant in the previous section.

11.  $\sqrt{1} = 1$

12.  $\sqrt{13} = \sqrt{13}$

13.  $\sqrt{0} = 0$

14.  $\sqrt{28} = \sqrt{4} \sqrt{7} = 2\sqrt{7}$

15.

16.

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