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Quadratic equation problems with answers pdf worksheet pdf download pdf

Solving Quadratic Equations (A)

Solve each equation for x

1. $-2x^2 + 9x + 29 = -6$
2. $-x^2 - 2x + 7 = -17$
3. $2x^2 - 3x - 4 = 5$
4. $4x^2 - 20x + 16 = -8$
5. $2x^2 + 22x + 13 = -23$
6. $-x^2 - 10x - 7 = 2$
7. $x^2 - x - 44 = 12$
8. $2x^2 - 21x + 28 = -12$
9. $-2x^2 + 17x - 12 = 9$
10. $-x^2 - 2x + 19 = -29$
11. $x^2 + 10x + 4 = -5$
12. $-4x^2 - 26x - 6 = 30$

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Solve the Quadratic Equations by Factoring Name:_____

Solve the Quadratic Equations by Factoring **Worksheet # 1**

1.) $4x^2 + 16x = 48$

2.) $x^2 + 7x = -6$

3.) $x^2 + 13x = -42$

4.) $x^2 + 6 = 5x$

5.) $8x^2 + 80 = -56x$

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

7.) $2x^2 + 84 = 26x$

8.) $x^2 = 6x - 5$

9.) $x^2 - 3x = 40$

10.) $4x^2 + 168 = 52x$

http://math.about.com Score: /10

The quadratic formula and the discriminant

1) Write the coefficients a, b and c below the equation.

A) $2x^2 + 25x + 33 = 0$

a =

b =

c =

B) $x^2 - 10x = 11$

a =

b =

c =

B) Is the quadratic formula true or false: $x = \frac{-b+\sqrt{b^2-4ac}}{2a}$

Write Yes below the correct answer

A) True

B) False

C) What is the discriminant in the quadratic formula?

Write Yes below the correct answer

A) $-b \pm \sqrt{b^2 - 4ac}$

B) $b^2 - 4ac$

C) $\frac{b}{2a}$

Step 3: Use the quadratic formula to solve.

a = 15 b = 19 c = -50

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$x = \frac{-19 \pm \sqrt{19^2 - 4(15)(-50)}}{2(15)}$$

Substitute the values for a, b, & c.

$$x = \frac{-19 \pm \sqrt{361 + 3000)}}{30}$$

$19^2 = 361$
$-4(15)(-50) = 3000$
$2(15) = 30$

$$x = \frac{-19 \pm \sqrt{3361}}{30}$$

Simplify inside the radical: 361+3000 = 3361

$$x = \frac{-19 \pm 57.97}{30}$$

The square root of 3361 is 57.97 (I rounded this answer)

$$x = \frac{-19+57.97}{30} = \frac{38.97}{30} = \text{1.3 seconds}$$

**Even though the formula uses the ± sign, we will only use the plus. When using the plus sign we will get a positive time.

-19 – 57.97 would give us a negative answer. This is a real world problem and we are calculating time. We know that time cannot be negative. Therefore a negative answer does not apply.

Solution: It would take about 1.3 seconds for an object to fall 50 feet.

Step 4: Check by substituting your answer into the original equation.

$50 = 19t + 15t^2$
$50 = 19(1.3)+15(1.3)^2$
50 = 50.05 ☹ **My answer is slightly off because I had to round the square root of 3361.**

Name Date

FACTORISING QUADRATIC EQUATIONS SHEET 10

Factorise these quadratic equations.

1)	$2x^2 + 3x + 1 = 0$	$(2x + ___)(x + ___)$	x = __ or __
2)	$2y^2 + 7y + 6 = 0$		
3)	$2z^2 - 9z - 8 = 0$		
4)	$2a^2 - 3a - 5 = 0$		
5)	$2b^2 - 5b + 3 = 0$		
6)	$2c^2 + 7c - 4 = 0$		
7)	$2d^2 - 9d + 9 = 0$		
8)	$2e^2 - 3e + 1 = 0$		
9)	$2f^2 - 6f - 8 = 0$		
10)	$2g^2 - g - 10 = 0$		
11)	$2h^2 + 9h + 7 = 0$		
12)	$2i^2 - i - 3 = 0$		
13)	$2j^2 - 13j + 6 = 0$		
14)	$2k^2 + 3k - 9 = 0$		
15)	$2m^2 + 7m - 15 = 0$		
16)	$2n^2 - 8 = 0$		

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Here the coefficients of the different terms are substituted into the formula and the solutions are calculated. The solutions can be left as surds (with square roots), or written as decimals as required. Each one has model problems worked out step by step, practice problems, as well as challenge questions at the sheets end. Then each factor is considered in turn to be equal to zero and the solution is found. Quadratic equations contain variables that are raised to a power no higher than two. Math worksheets and visual curriculum Another method we can use to solve quadratic equations is using the quadratic formula. We can work out the number of solutions a quadratic equation has by using the discriminant. If the equation is more complex and contains a squared term and the linear term we can use a variety of methods to solve it. For more teaching and learning support on Algebra our GCSE maths lessons provide step by step support for all GCSE maths concepts. Completing the square can also be used to solve a quadratic equation; this method can help to identify the turning points of the quadratic graph produced from the equation. Looking forward, students can then progress to additional algebra worksheets, for example a factorising worksheet, or a simultaneous equations worksheet. Plus each one comes with an answer key. Mathworksheetsgo.com is now a part of Mathwarehouse.com. These can be solved using a variety of methods and there are usually two solutions. If there is a single squared variable in the quadratic equation it can be solved by rearranging the equation to put the unknown on one side of the equals sign and all the other terms on the other side. Please update your bookmarks! Enjoy these free sheets. All of your worksheets are now here on Mathwarehouse.com. After rearranging the equation so that the right hand side is equal to 0, the quadratic expression on the left hand side of the equals sign is factorised so that it is written as a product of two factors. One method is factorising quadratics.

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