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Name _____ Date _____

Using the Quadratic Formula - Matching Worksheet

Match the equations to their possible values for x ; using the quadratic formula.

_____ 1. $3x^2 + 21x + 36 = 0$	a. $x = -1$ or $x = -2$
_____ 2. $2x^2 + 4x - 30 = 0$	b. $x = -5$ or $x = 6$
_____ 3. $2x^2 + 8x + 4 = 0$	c. $x = 8$ or $x = 6$
_____ 4. $x^2 - 3x - 10 = 0$	d. $x = 7$ or $x = 11$
_____ 5. $x^2 - 14x + 48 = 0$	e. $x = -3$ or $x = -4$
_____ 6. $x^2 - 18x + 17 = 0$	f. $x = -3$ or $x = -3$
_____ 7. $x^2 + x + 12 = 0$	g. $x = 5$ or $x = -2$
_____ 8. $x^2 - x - 30 = 0$	h. $x = 8$ or $x = 6$
_____ 9. $x^2 + 8x + 9 = 0$	i. $x = 3$ or $x = -5$
_____ 10. $2x^2 - 28x + 84 = 0$	j. $x = 4$ or $x = -3$

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Example 7

A function f is defined by $f: x \rightarrow \frac{4x+15}{2x-3}, x \neq \frac{3}{2}$. Find the values of x that are mapped onto itself under f .

Solution

$f(x) = x$	$4x + 15 = 2x^2 - 3x$
$\frac{4x+15}{2x-3} = x$	$2x^2 - 7x - 15 = 0$
$4x + 15 = x(2x - 3)$	$(2x + 3)(x - 5) = 0$
	$x = -\frac{3}{2}$ or 5

Smart Tips
An object is mapped onto itself if the object and image has the same value, i.e. $f(x) = x$.

Absolute Value Functions

- The absolute value of x is written as $|x|$ and it is read as 'modulus of x '.
- The definition of $|x|$ is $|x| = \begin{cases} x, & \text{if } x \geq 0, \\ -x, & \text{if } x < 0. \end{cases}$
- In other words, $|x|$ is the numerical value of x , i.e. a positive number is still positive but a negative number becomes positive. For example, $|5| = 5$ and $|-5| = 5$.
- An absolute value function is defined by $f(x) = \begin{cases} f(x), & \text{if } f(x) \geq 0, \\ -f(x), & \text{if } f(x) < 0. \end{cases}$
- The graph of a linear absolute value function has a V shape.

Smart Tips
For $f(x) = k$, where k is a constant, there are two equations that can be formed, i.e. $f(x) = k$ or $f(x) = -k$.

Example 8

Given the function $f: x \rightarrow |4x - 5|$, find

a the image of (i) -3 , (ii) 2 ,
b the objects that have the image 9.

Solution

a $f: x \rightarrow |4x - 5|$
 $f(x) = |4x - 5|$
(i) $f(-3) = |4(-3) - 5|$
 $= |-17|$
 $= 17$
Hence, the image of -3 is 17.
(ii) $f(2) = |4(2) - 5|$
 $= |3| = 3$
Hence, the image of 2 is 3.

b $f(x) = 9$
 $|4x - 5| = 9$
 $4x - 5 = 9$
 $4x - 5 = 29$
The first equation is $4x - 5 = 9$
 $4x = 14$
 $x = \frac{7}{2}$
The second equation is $4x - 5 = -9$
 $4x = -4$
 $x = -1$
Hence, the objects that have the image 9 are $\frac{7}{2}$ or -1 .

CHAPTER 1 Function 7

For an $ax^2+bx+c = 0$ (where a, b and c are coefficients), their roots are given following the formula. The formula for finding roots of the quadratic equation $ax^2+bx+c = 0$ is known as discriminating from a quadratic equation. The discriminant tells the nature of the roots. If discriminating is greater than 0, the roots are real and different. If discriminating is equal to 0, the roots are real and equal. If discriminating is less than 0, the roots are complex and different. Calculate the roots of a quadratic equation example: roots of a quadratic equation #include #include using the STD name space; int cout > a >> b >> c; Discriminating = $B^2 - 4*A*C$; if (discriminant > 0) {x1 = $(-b + \sqrt{\text{discriminant}}) / (2*A)$; x2 = $(-b - \sqrt{\text{discriminant}}) / (2*A)$; cout

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