The quadratic formula

Exit ticket ANSWERS Name _____

1 Write down the values of a, b and c for $x^2 = 4x + 1$.

$a = 1, b = -4, c = -1$

2 Work out the value of $b^2 - 4ac$ for $2x^2 + 3x - 5 = 0$.

49

3 Solve $x^2 + 4x - 3 = 0$. Give your answers to 2 decimal places.

$x = 0.65$ or $x = -4.65$

The Maths Habit

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NEXT LESSON

1 **Write down the values of a, b and c for $x^2 = 4x + 1$.**

$a = 1, b = -4, c = -1$

TESTS Making it = 0, then a, b and c with their signs

LOOK FOR

$b = 4, c = 1$ read off before it is = 0: take $4x$ and 1 from both sides

$c = 1$ only the x term moved: $x^2 - 4x - 1 = 0$

FIX IT

Write down the values of a, b and c for $x^2 = 2x + 5$. *$a = 1, b = -2, c = -5$*

2 **Work out the value of $b^2 - 4ac$ for $2x^2 + 3x - 5 = 0$.**

49

TESTS Working out $b^2 - 4ac$ with a negative c

LOOK FOR

−31 $-4 \times 2 \times (-5) = +40$, so $9 + 40$

46 $3^2 = 9$, not 3×2

FIX IT

Work out the value of $b^2 - 4ac$ for $x^2 - 5x - 6 = 0$. *49*

3 **Solve $x^2 + 4x - 3 = 0$. Give your answers to 2 decimal places.**

$x = 0.65$ or $x = -4.65$

TESTS The whole formula, to 2 decimal places

LOOK FOR

$x = -1.35$ or -6.65 only the root divided by 2: the whole top is divided by $2a$

$x = 4.65$ or -0.65 $b = 4$, so $-b$ is -4

FIX IT

Solve $x^2 + 2x - 4 = 0$. Give your answers to 2 decimal places. *$x = 1.24$ or $x = -3.24$*