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2. $x^2 + 9x + 13 > -7$

4. $a^2 + 3a + 2 < -3(a + 2)$

6. $10 - 9y \geq -2y^2$

8. $a^2 \leq 4(2a - 3)$

10. $x^2 + 9x + 13 > -7$

12. $a^2 + 25 < 10a$

14. $a^2 + 3a + 2 \geq -3(a + 2)$

16. $2x^2 \leq 5x - 2$

18. $2a(a + 6) > 5 - a(a + 2)$

20. $a^2 < 4(2a - 3)$

22. $2x^2 + 7 \geq 9x$

24. $3x^2 + 7x \leq -2$

26. $x^2 - x - 2 > 0$

28. $t^2 + 2t - 3 < 0$

30. $x^3 \geq 4(x-5)$

32. $10 - 3x \leq x^2$

34. $6(x^2 + 1) > -13$

36. $20a^2 < 1 - a$


38. $y^2 \geq 25$


40. $3x(x+1) \leq x(x+5)$

42. $x^2 + 3x > 12$

44. $4x^2 - 9x + 2 < 0$

AQA
Assessing what you know





What is the value of x if $\frac{15\sqrt{x}}{\sqrt{5}} = 6\sqrt{5}$?

A B C D

2 $2\sqrt{5}$ 4 20

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AQA
Assessing Understanding

$x_{n+1} = \frac{1}{2x_n} + 1$

Start with $x_1 = -1$

Which of these is x_2 ?

A	B	C	D
$-\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$-\frac{1}{2}$

Watch Starter

What is Iteration?

Definitions

Example

Your Turn

Using the Ans Feature

Using A Calculator

Iteration Using a Calculator

Example

Rearrange

Exam Style Question

40%

Iteration Lesson

Sharing Good Practice, Resources and Ideas.

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Ex 1 Solve the equation $x^2 + 4x - 5 = 0$ by a suitable method (1 mark) (1)

Solve $x^2 + 4x - 5 = 0$ $\Rightarrow x^2 + 4x + (-5) = 0$
 Solve $x^2 + 4x - 5 = 0$ $\Rightarrow x^2 + 4x + (-5) = 0$ $\frac{4 \pm \sqrt{16 + 20}}{2}$
 The large integer is the largest factor between 5 and 1

Ex 2 Solve the equation $x^2 + 7x + 12 = 0$ by a suitable method (1 mark) (2)

Solve $x^2 + 7x + 12 = 0$ $\Rightarrow x^2 + 7x + 12 = 0$
 Solve $x^2 + 7x + 12 = 0$ $\Rightarrow x^2 + 7x + 12 = 0$ $\frac{-7 \pm \sqrt{49 - 48}}{2}$
 The large integer is the largest factor between 12 and 7

Ex 3 Solve the equation $x^2 + 7x + 12 = 0$ by a suitable method (1 mark) (3)

Solve $x^2 + 7x + 12 = 0$ $\Rightarrow x^2 + 7x + 12 = 0$
 Solve $x^2 + 7x + 12 = 0$ $\Rightarrow x^2 + 7x + 12 = 0$ $\frac{-7 \pm \sqrt{49 - 48}}{2}$
 The large integer is the largest factor between 12 and 7

Ex 4 Solve the equation $x^2 + 7x + 12 = 0$ by a suitable method (1 mark) (4)

Solve $x^2 + 7x + 12 = 0$ $\Rightarrow x^2 + 7x + 12 = 0$
 Solve $x^2 + 7x + 12 = 0$ $\Rightarrow x^2 + 7x + 12 = 0$ $\frac{-7 \pm \sqrt{49 - 48}}{2}$
 The large integer is the largest factor between 12 and 7

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