

KHAN GLOBAL STUDIES

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Defence (Mathematics)

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Basic Maths DPPS-1

Solve the followings

1. $x^2 - x - 2 > 0$
2. $x^2 - x - 1 < 0$
3. $(x - 2)(x - 4)(3 - x) > 0$
4. $\frac{2}{x} < 3$
5. $x > \sqrt{1 - x}$
6. $\sqrt{x - 5} - \sqrt{9 - x} > 1, x \in \mathbb{Z}$
7. $\sqrt{x - 2} \geq -1$
8. $\sqrt{x - 1} > \sqrt{3 - x}$
9. $x + \sqrt{x} \geq \sqrt{x} - 3$
10. $1 - x = \sqrt{x^2 - 2x + 1}$
11. $|3x - 2| = x$
12. $|x - 3| + |x - 2| = 1$
13. $x^2 - 4|x| + 3 < 0$
14. $|3x - 2| < 4$
15. $1 \leq |x - 2| \leq 3$
16. $|x + 1| + |2x - 3| = 4$
17. $|2x - 3| + |x - 1| = |x - 2|$
18. $|x| = 2x - 1$
19. $|x^2 - x - 2| + |x + 6| = |x^2 - 2x - 8|$
20. $|x^2 - 1| + |x^2 - 4| > 3$