MATHS

BOOKS - RD SHARMA MATHS (ENGLISH)

GRAPHS OF TRIGONOMETRIC FUNCTIONS
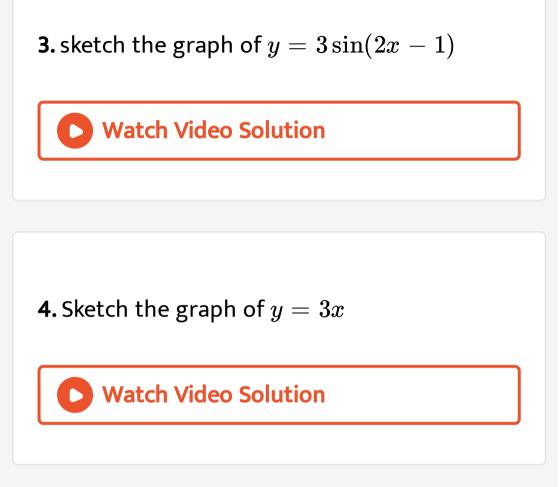
Others

1. Sketch the following graphs: $y = 2\sin 2x$ (ii)

$y = 3\sin x$

2. Sketch the graphs of the following functions

on   the   same   scale.

$y = \cos x \text{ and } y = \cos\left(x - \dfrac{\pi}{4}\right)$

$y = \cos 2x \text{ and } y = \cos 2\left(x - \dfrac{\pi}{4}\right)$

$y = \cos x \text{ and } y = \cos\left(\dfrac{x}{2}\right)$

3. sketch the graph of $y = 3\sin(2x - 1)$

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4. Sketch the graph of $y = 3x$

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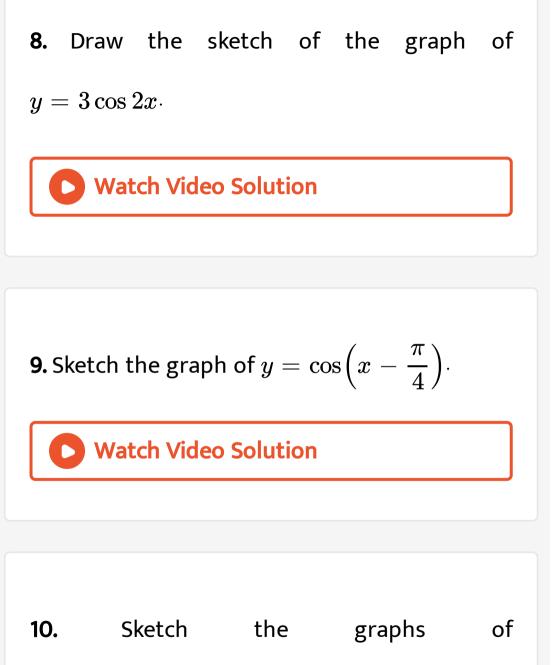**5.** Sketch the following graphs :Y = sin x and y = sin 2x on same axes.

6. Sketch the graph of the following pairs of functions on the same axes:

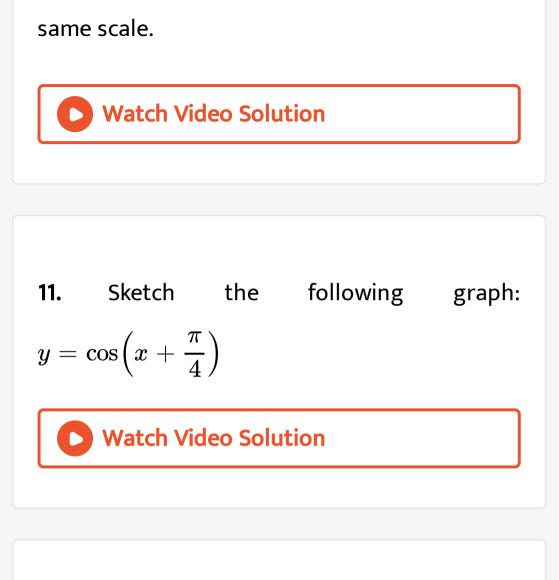$$y = \sin x, \ y = \sin\left(x + \frac{\pi}{4}\right)$$

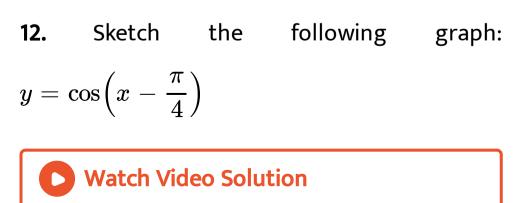**7.** Sketch the graph of the following pairs of functions on the same axes: y=sin3x

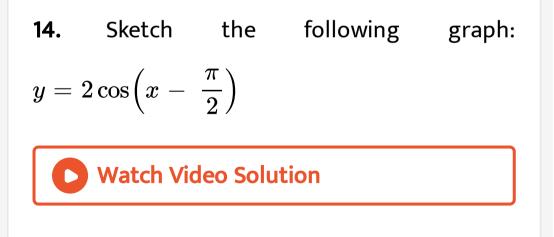**8.** Draw the sketch of the graph of $y = 3\cos 2x$.

9. Sketch the graph of $y = \cos\left(x - \dfrac{\pi}{4}\right)$.

10. Sketch the graphs of $y = \cos 2x \ and \ y = \cos\left(2x - \dfrac{\pi}{4}\right)$ on the

same scale.

11. Sketch the following graph:

$$y = \cos\left(x + \frac{\pi}{4}\right)$$

12. Sketch the following graph:

$$y = \cos\left(x - \frac{\pi}{4}\right)$$

13. Sketch the following graph:

$$y = 3\cos(2x - 1)$$

14. Sketch the following graph:

$$y = 2\cos\left(x - \frac{\pi}{2}\right)$$

15. Sketch the graph of the following function:

$$y = \sin^2 x$$

16. Sketch the graph of the following function:

$$y = \cos^2 x$$
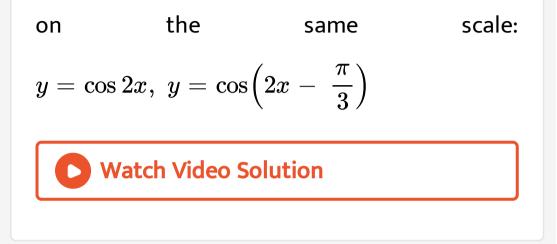
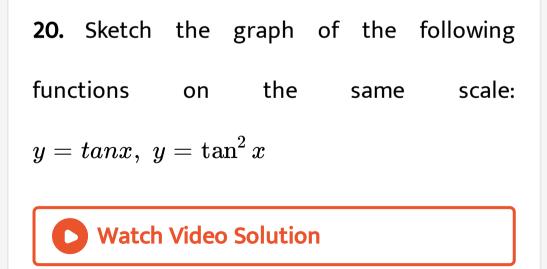**17.** Sketch the graph of the following function:

$$y = \tan 2x$$

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18. Sketch the graph of the following function:

$$y = 2\cot 2x$$

▶ **Watch Video Solution**

19. Sketch the graph of the following functions on the same scale:

$$y = \cos 2x, \; y = \cos\left(2x - \frac{\pi}{3}\right)$$

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20. Sketch the graph of the following functions on the same scale:

$$y = tanx, \; y = \tan^2 x$$

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21. Sketch the graph of the following functions on the same scale: $y = \sin^2 x$, $y = \sin x$

22. Sketch the graph of the following functions on the same scale: $y = \tan 2x$, $y = \tan x$