



MATHS

BOOKS - RD SHARMA MATHS (HINGLISH)

GRAPHS OF TRIGONOMETRIC FUNCTIONS

Solved Examples And Exercises

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

$$y = 3 \sin x$$



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2. Sketch the graphs of the following functions on the same scale

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



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



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



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5. Sketch the following graph:

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



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Others

1. Sketch the graph of $y = 3 \sin 2x$.



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2. Sketch the graph of $y = \sin x$ and $y = \sin 2x$ on the same axes.



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

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



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

$$y = \sin x, y = \sin 3x$$



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5. Draw the sketch of the graph of

$$y = 3 \cos 2x.$$



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6. Sketch the graphs of

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

same scale.



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7. Sketch the following graph:

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



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8. Sketch the following graph:

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



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9. Sketch the following graph:

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



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10. Sketch the graph of the following function:

$$y = \sin^2 x$$



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11. Sketch the graph of the following function:

$$y = \cos^2 x$$



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12. Sketch the graph of the following function:

$$y = \tan 2x$$



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13. Sketch the graph of the following function:

$$y = 2 \cot 2x$$



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