

Trigonometrical Functionsdifferentiate with respect to x :

1.
$$y = \sin(3x)$$

2.
$$y = \cos(4x)$$

3.
$$y = \tan(2x)$$

4.
$$\frac{1}{\cos(2x)}$$

5.
$$\frac{1}{\sin(4x)}$$

6.
$$\frac{1}{\tan(5x)}$$

7.
$$y = \sin(x^2)$$

8.
$$y = \cos(2 - 3x)$$

9.
$$\frac{1}{\cos(2x - 1)}$$

10.
$$\frac{1}{\tan(3 - 2x)}$$

Trigonometrical Functions

answers:

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|----|--|-----|--|
| 1. | $3\cos(3x)$ | 2. | $-4\sin(4x)$ |
| 3. | $2\tan^2(2x) + 2$ | 4. | $\frac{2\sin(2x)}{\cos^2(2x)}$ |
| 5. | $-\frac{4\cos(4x)}{\sin^2(4x)}$ | 6. | $-\frac{5\tan^2(5x) - 5}{\tan^2(5x)}$ |
| 7. | $2x\cos(x^2)$ | 8. | $-3\sin(3x - 2)$ |
| 9. | $\frac{2\sin(2x - 1)}{\cos^2(2x - 1)}$ | 10. | $\frac{2\tan^2(2x - 3) + 2}{\tan^2(2x - 3)}$ |