Exercise 6.5

1. Sketch, on separate diagrams, each of the following curves in the domain $0° \leqslant x \leqslant 360°$.
   (a) $y = 3 \cos x$
   (b) $y = \cos 2x$
   (c) $y = \cos (x - 30°)$

Sketch the graph for each of the following functions in the domain $0 \leqslant x \leqslant 2\pi$.

2. $y = \sin (x + \frac{\pi}{4})$

3. $y = \sin 2x$

4. $y = 2 \sin (2x + \frac{\pi}{4})$

5. $y = \cos 3x$

6. $y = 3 \cos (3x + \frac{\pi}{3})$

7. $y = \sin \frac{1}{2}x$

8. $y = 2 \sin \frac{1}{3}x$

9. $y = \tan 2x$

10. Sketch, on separate diagrams, each of the following curves in the domain $0 \leqslant x \leqslant \pi$.
    (a) $y = \tan 2x$
    (b) $y = \tan 2(x - \frac{\pi}{4})$
    (c) $y = \tan (\frac{\pi}{2} - 2x)$

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1. (a) (b)
   (c)

2.

3.

4.

5.

6.

7.

8.

9.

10. (a) (b)
    (c)