FP1 Trigonometry Questions

3   Find the general solution, in **degrees**, for the equation

$$\sin(4x + 10°) = \sin 50°$$

(5 marks)

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4   Find, in **radians**, the general solution of the equation

$$\cos 3x = \frac{\sqrt{3}}{2}$$

giving your answers in terms of π.

(5 marks)

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7   The function f is defined for all real numbers by

$$f(x) = \sin\left(x + \frac{\pi}{6}\right)$$

(a)   Find the general solution of the equation $f(x) = 0$.

(3 marks)

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6   Find the general solution of the equation

$$\sin\left(2x - \frac{\pi}{2}\right) = \frac{\sqrt{3}}{2}$$

giving your answer in terms of π.

(6 marks)