

Trigonometry: Practice Questions

1. Find the value of each of the following, *without the use of a calculator*:

a) $f(x) = \sin(x)$, where $x = \frac{\pi}{6}$

b) $f(x) = \cos(x)$, where $x = \frac{3\pi}{4}$

c) $f(x) = \sin(x)$, where $x = \frac{4\pi}{3}$

d) $f(x) = \sin(x) + \cos(x)$, where $x = \frac{\pi}{2}$

e) $f(x) = 2\sin(x) - 4\cos(x)$, where $x = \pi$

f) $f(x) = \sin^2 x + \cos^2 x$ where $x = \frac{\pi}{4}$

g) $f(x) = 2\sin^2 x + \cos(2x)$ where $x = \frac{\pi}{3}$