Write a sine and a cosine equation of these trigonometric functions.
Try not to use a calculator!

Remember there are many possible equations for these functions. I have given just two and they may not be the same as yours. Use your calculator to verify your equations are the same as mine.

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|---|---|
| a(x) = sin x<br>a(x) = cos (x - π/2) | b(x) = cos x<br>b(x) = sin (x + π/2) |
| c(θ) = 2 cos (θ) - 1<br>c(θ) = 2 sin (θ + 90) - 1 | d(θ) = 3 cos 5θ<br>d(θ) = 3 sin 5(θ + 90) |
| e(x) = cos (x + π)<br>e(x) = sin (x - π/2) | f(x) = cos ( x - π/6)<br>f(x) = sin ( x + π/3) |

| | |
|---|---|
| g(x) = -cos (x - π) + 1<br>g(x) = -sin (x - π/2) + 1 | h(x) = -cos (x - 3π/4)<br>h(x) = sin (x - 5π/4) |
| i(θ) = cos 2(θ - 30) + 1<br>i(θ) = sin 2(θ + 15) + 1 | j(θ) = cos 4(θ + 22.5) - 1<br>j(θ) = -sin 4(θ) - 1 |
| k(x) =  2 cos ½(x) - 2<br>k(x) =  2 sin ½(x + π) - 2 | l(x) = -2 cos 1/6(x + π) - 15<br>l(x) = -2 sin 1/6(x + 4π) - 15 |