

## *Transformations of Trig Functions – Additional Practice*

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1. For each of the following trig functions,  
(i) state the period, amplitude, phase shift and vertical shift  
(ii) graph one complete cycle of the function

a)  $y = \sin[3(x - 60^\circ)] + 2$

b)  $y = -3\cos[2(x - 60^\circ)] - 1$

c)  $y = \frac{1}{2}\cos(4x + 180^\circ) - 3$

d)  $y = 4\sin[-2x + 180^\circ] + 1$

2. Write two equations for each of the following graphs, one using the sine function, and one using the cosine function.

