Transformations of Sinusoidal Functions

• Given the possible base functions $f(x) = \sin x$ or $f(x) = \cos x$, we can identify and apply the transformations to these base functions using the generalized equation y = af(k(x-d)) + c. Let us follow the same process as we have done earlier in the course.

Ex:
$$y = -\frac{1}{2}\cos(2x + 60^\circ) + 4$$
 Base Function: $y = \cos x$
 $y = -\frac{1}{2}\cos(2(x + 30^\circ)) + 4$

$$a = -\frac{1}{2}$$
$$k = 2$$

$$d = -30^{\circ}$$

$$c = +4$$

Transformations

- reflection in the x axis
- vertical compression by a factor of $\frac{1}{2}$
- horizontal compression by a factor of $\frac{1}{2}$
- phase shift left 30°
- shift up 4 units
- Let's apply these transformations to the key point $(60^{\circ}, 0.5)$. $(60^{\circ}, 0.5) \rightarrow (60^{\circ}, -0.5) \rightarrow (60^{\circ}, -0.25) \rightarrow (30^{\circ}, -0.25) \rightarrow (0^{\circ}, -0.25) \rightarrow (0^{\circ}, 3.75)$

Sinusoidal Functions And Transformations

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