#1. Fill in the chart for $f(x) = 2\sin(2x - 120) - \frac{1}{2}$. Then graph two complete cycles using an appropriate scale.

Proper Function $f(x) = af\big(k(x-d)\big) + c$				Vert. Stretch **a**	Horiz. Stretch **1/k**	Horiz. Shift **d**	Vert. Shift **c**
				Amp-litude	Period 360/k	Phase Shift	Eq'n of Axis
Domain		Range					

	Parent Function		Transformed Function	
Table of Values				

#2 Fill in the chart for $f(x) = \frac{1}{2}\cos(3x - 90) - 1$. Then graph two complete cycles using an appropriate scale.

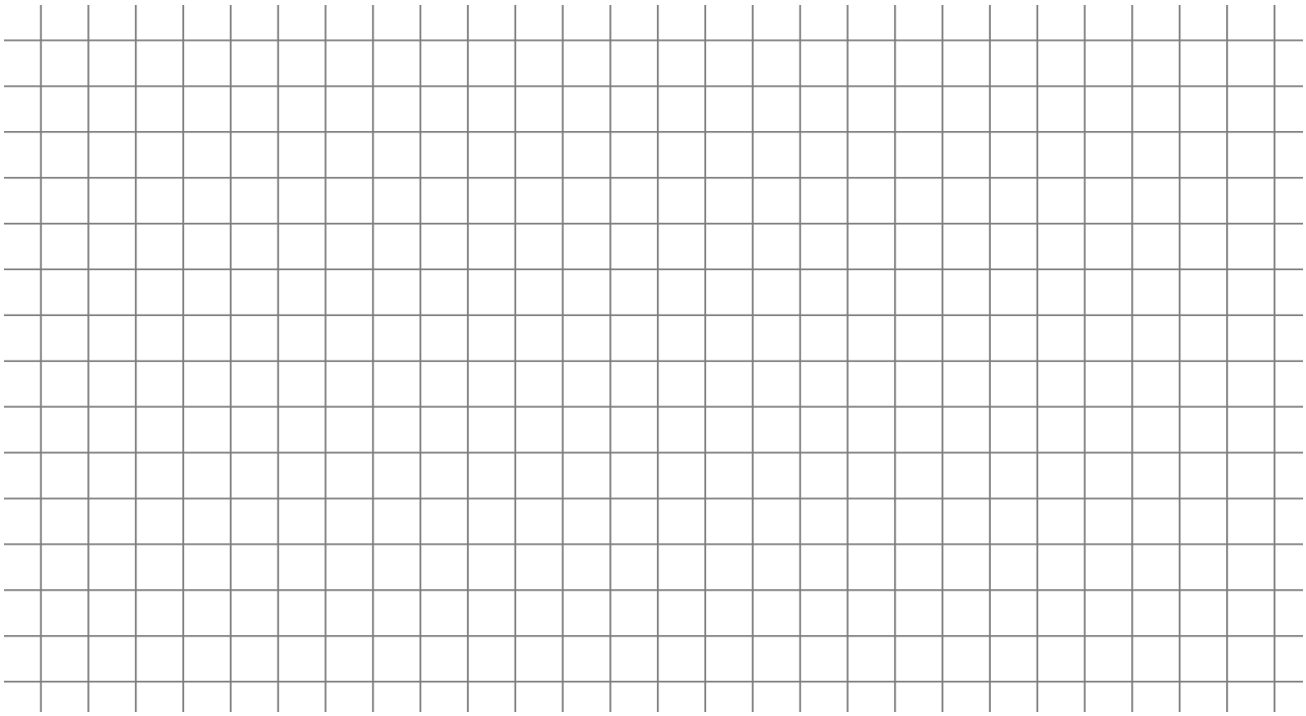
Proper Function $f(x) = af\big(k(x-d)\big) + c$				Vert. Stretch **a**	Horiz. Stretch **1/k**	Horiz. Shift **d**	Vert. Shift **c**
				Amp-litude	Period 360/k	Phase Shift	Eq'n of Axis
Domain		Range					

	Parent Function		Transformed Function	
Table of Values				

#3. Fill in the chart for $f(x) = 4\sin(6x + 180) - 3$. Then graph two complete cycles using an appropriate scale.

Proper Function $f(x) = af\big(k(x-d)\big) + c$				Vert. Stretch **a**	Horiz. Stretch **1/k**	Horiz. Shift **d**	Vert. Shift **c**
				Amp-litude	Period 360/k	Phase Shift	Eq'n of Axis
Domain		Range					

	Parent Function		Transformed Function	
Table of Values				



#4. Fill in the chart for $f(x) = -2\sin\left(\frac{3}{4}x + 45\right) + 3$. Then graph two complete cycles using an appropriate scale.

Proper Function $f(x) = af\big(k(x-d)\big) + c$				Vert. Stretch **a**	Horiz. Stretch **1/k**	Horiz. Shift **d**	Vert. Shift **c**
				Amp-litude	Period 360/k	Phase Shift	Eq'n of Axis
Domain		Range					

	Parent Function		Transformed Function	
Table of Values				

#5. Fill in the chart for $f(x) = \frac{3}{4}\cos(2x - 60) + 5$. Then graph two complete cycles using an appropriate scale.

Proper Function $f(x) = af\big(k(x-d)\big) + c$				Vert. Stretch **a**	Horiz. Stretch **1/k**	Horiz. Shift **d**	Vert. Shift **c**
				Amp-litude	Period 360/k	Phase Shift	Eq'n of Axis
Domain		Range					

	Parent Function		Transformed Function	
Table of Values				

#6. Fill in the chart for $f(x) = -2\sin\left(\frac{1}{2}x + 45\right)$. Then graph two complete cycles using an appropriate scale.

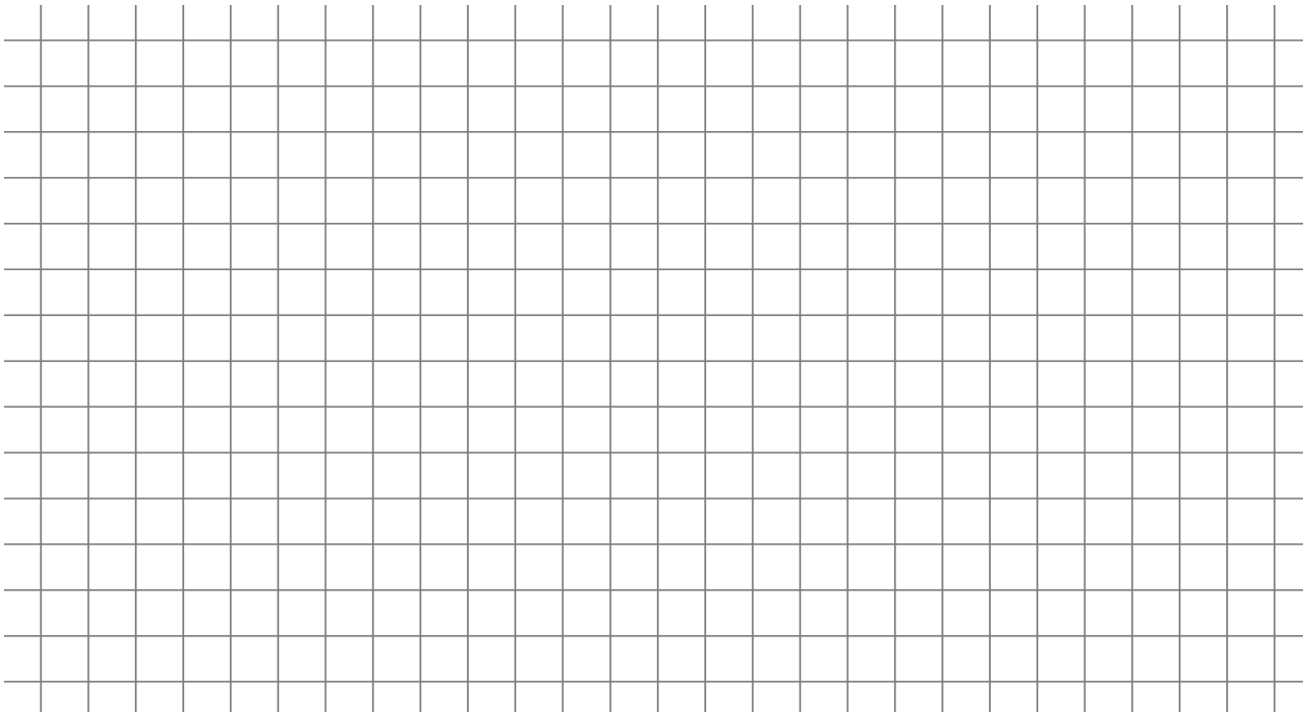
Proper Function $f(x) = af\big(k(x-d)\big) + c$				Vert. Stretch **a**	Horiz. Stretch **1/k**	Horiz. Shift **d**	Vert. Shift **c**
				Amp-litude	Period 360/k	Phase Shift	Eq'n of Axis
Domain		Range					

	Parent Function		Transformed Function	
Table of Values				

#7. Fill in the chart for $f(x) = -\cos(4x - 180) + 4$. Then graph two complete cycles using an appropriate scale.

Proper Function $f(x) = af\big(k(x-d)\big) + c$				Vert. Stretch **a**	Horiz. Stretch **1/k**	Horiz. Shift **d**	Vert. Shift **c**
				Amp-litude	Period 360/k	Phase Shift	Eq'n of Axis
Domain		Range					

	Parent Function		Transformed Function	
Table of Values				



#8. Fill in the chart for $f(x) = -\frac{1}{2}\sin(2x + 30) + 3$. Then graph two complete cycles using an appropriate scale.

Proper Function $f(x) = af\big(k(x-d)\big) + c$				Vert. Stretch **a**	Horiz. Stretch **1/k**	Horiz. Shift **d**	Vert. Shift **c**
				Amp-litude	Period 360/k	Phase Shift	Eq'n of Axis
Domain		Range					

	Parent Function		Transformed Function	
Table of Values				

#9. Fill in the chart for $f(x) = 2\sin(3x - 90) + \frac{1}{2}$. Then graph two complete cycles using an appropriate scale.

Proper Function $f(x) = af\big(k(x-d)\big) + c$				Vert. Stretch **a**	Horiz. Stretch **1/k**	Horiz. Shift **d**	Vert. Shift **c**
				Amp-litude	Period 360/k	Phase Shift	Eq'n of Axis
Domain		Range					

	Parent Function		Transformed Function	
Table of Values				

#10. Fill in the chart for $f(x) = \frac{2}{3}\cos\left(\frac{1}{2}x - 60\right) - \frac{3}{4}$. Then graph two complete cycles using an appropriate scale.

Proper Function $f(x) = af\big(k(x-d)\big) + c$				Vert. Stretch **a**	Horiz. Stretch **1/k**	Horiz. Shift **d**	Vert. Shift **c**
				Amp-litude	Period 360/k	Phase Shift	Eq'n of Axis
Domain		Range					

	Parent Function		Transformed Function	
Table of Values