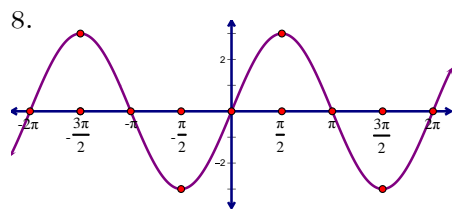
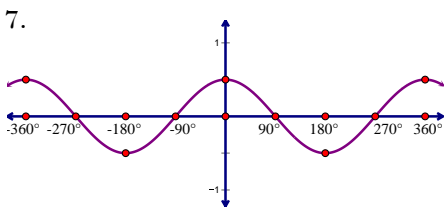
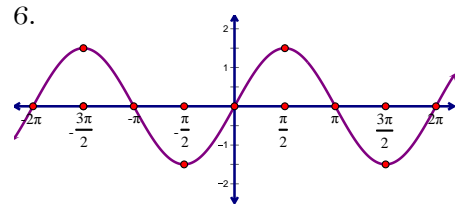
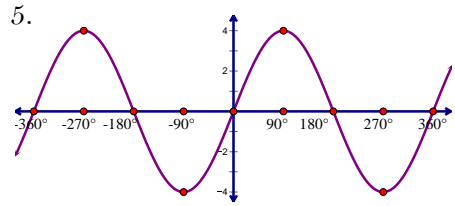
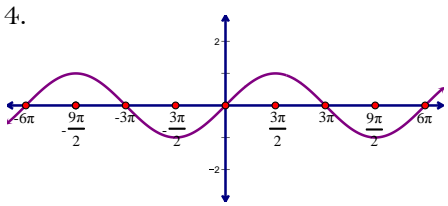
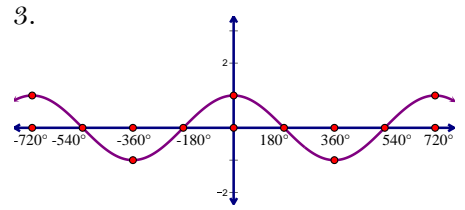
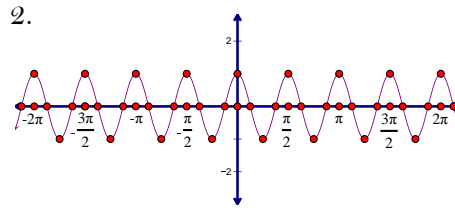
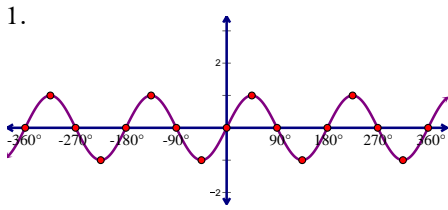
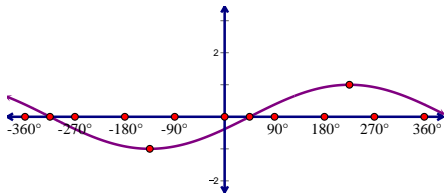


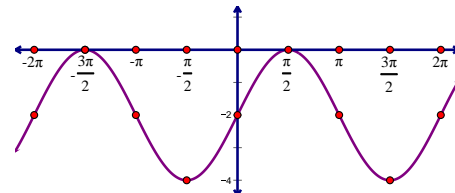
Dilations with Sine and Cosine – Answers



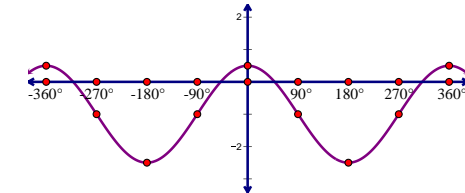
9. horizontal dilation BAFO 2
right 45°



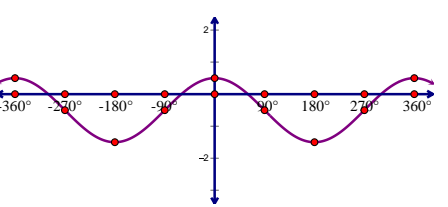
10. vertical dilation BAFO 2
down 2



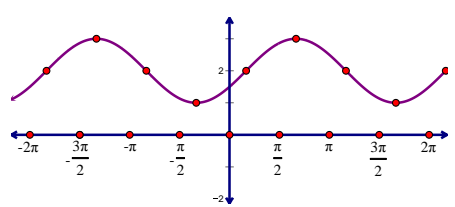
11. vertical dilation BAFO $\frac{3}{2}$
down 1



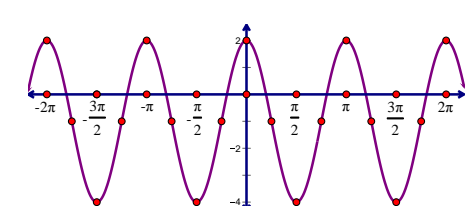
12. left 90° , down $\frac{1}{2}$



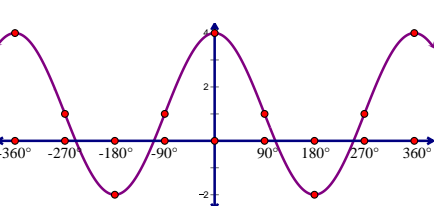
13. right $\frac{\pi}{6}$, up 2



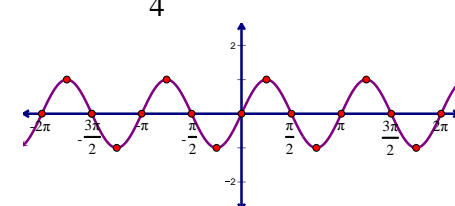
14. horizontal dilation BAFO $\frac{1}{2}$
vertical dilation BAFO 3, down 1



15. vertical dilation BAFO 3
up 1



16. horizontal dilation BAFO $\frac{1}{2}$
right $\frac{\pi}{4}$



17.
$$f(x) = \frac{1}{2} \sin\left(x + \frac{\pi}{2}\right)$$
$$g(x) = \frac{1}{2} \cos x$$

18.
$$f(x) = 2 \sin\left(x + \frac{\pi}{4}\right)$$
$$g(x) = 2 \cos\left(x - \frac{\pi}{4}\right)$$

19.
$$f(x) = \frac{3}{2} \sin\left(x + \frac{\pi}{2}\right) - 2$$
$$g(x) = \frac{3}{2} \cos x - 2$$

20.
$$f(x) = 2 \sin(x - 90^\circ)$$
$$g(x) = 2 \cos(x - 180^\circ)$$

21.
$$f(x) = \frac{5}{2} \sin\left(\frac{1}{2}(x - 180^\circ)\right)$$
$$g(x) = \frac{5}{2} \cos\left(\frac{1}{2}(x - 180^\circ)\right)$$

22.
$$f(x) = \sin(3x) + 2$$
$$g(x) = \cos\left(3\left(x - \frac{\pi}{4}\right)\right) + 2$$