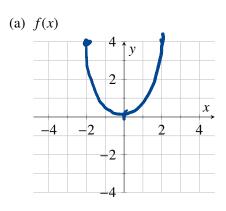
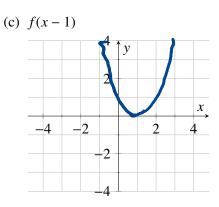
Transformation Review

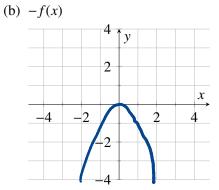
1. Explain what each does to the *original* graph y = f(x).

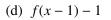
| Assume $c > 0$ | Description | Assume $c > 1$ | Description |
|----------------|---------------|----------------|----------------|
| f(x) + c | shift t by c | cf(x) | scale y 1 by c |
| f(x) - c | shift I by c | f(cx) | scale × 1 by 2 |
| f(x+c) | shift to by c | -f(x) | flip I |
| f(x-c) | shift -> by c | f(-x) | flip <>> |

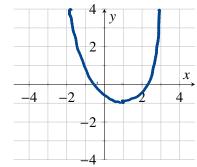
2. Let $f(x) = x^2$. Graph each of the following using the ideas from #1 above.





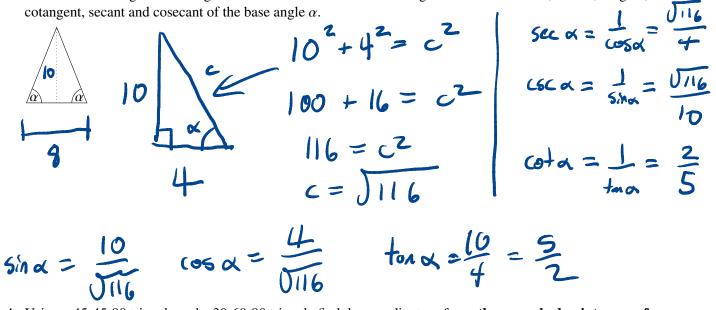




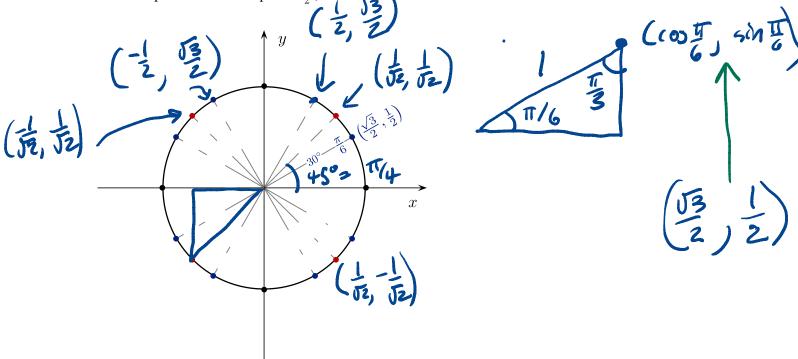


Trigonometry Review

3. An isosceles triangle has a height of 10 ft and its base is 8 feet long. Determine the sine, cosine, tangent, cotangent, secant and cosecant of the base angle α .

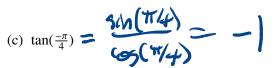


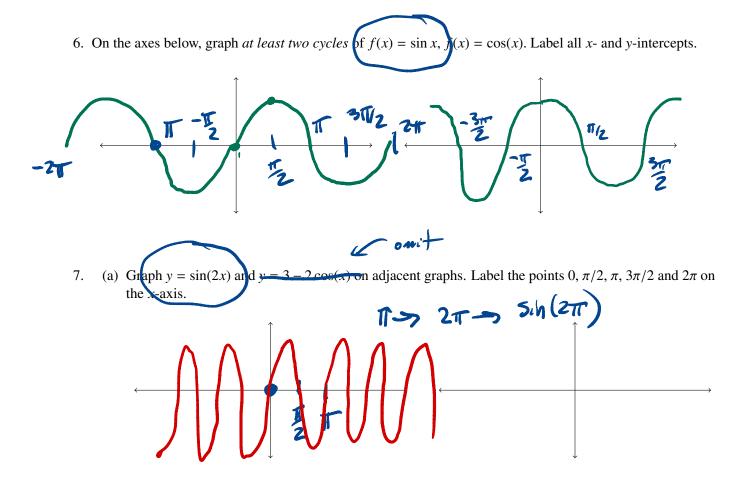
4. Using a 45-45-90 triangle and a 30-60-90 triangle find the coordinates of any three marked points, one of each color on the unit circle. (The blue points are at multiples of $\frac{\pi}{6}$, the red points are at multiples of $\frac{\pi}{4}$, and the black points are at multiples of $\frac{\pi}{2}$.)



5. Without a calculator evaluate:







(b) Use the graph of $f(x) = \sin(2x)$ to determine the domain of $f(x) = \csc(2x)$

$$csc(2x) = \int csin(2x)$$

sin(2x) 70 x= kI kis om integer 3 keZ