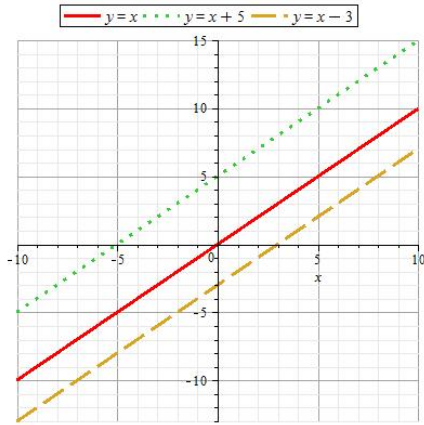


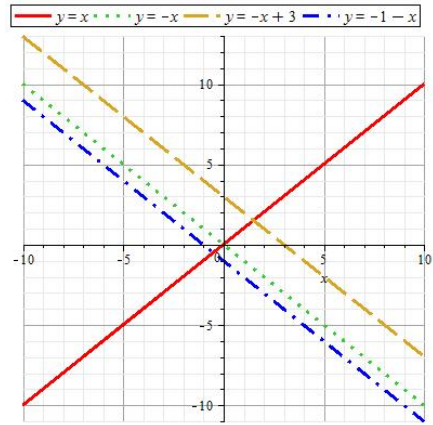
Revision Exercise (Transformations of the graphs of functions)

1.

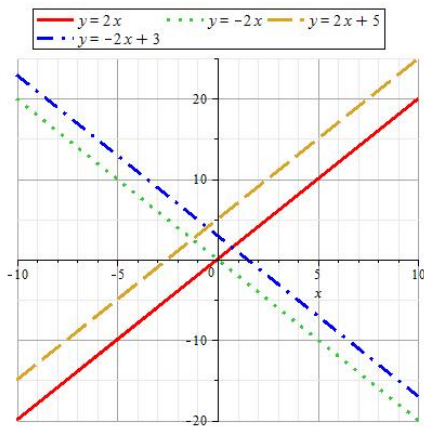
a)



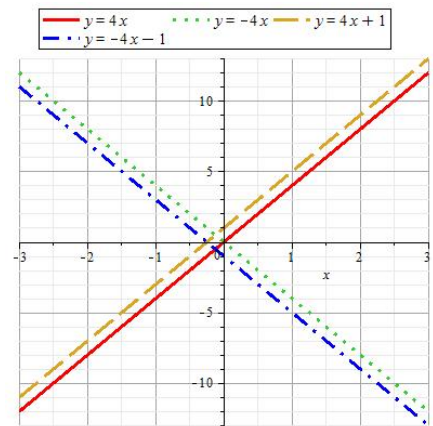
b)



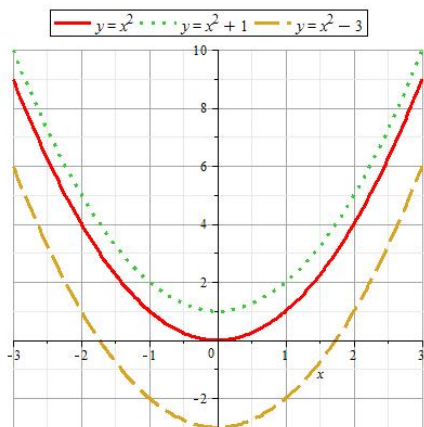
c)



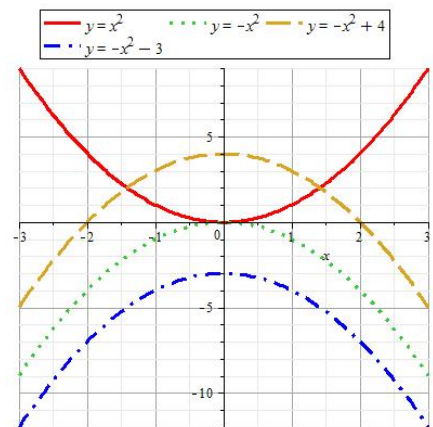
d)



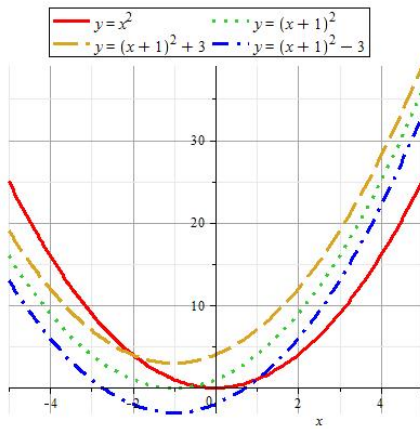
e)



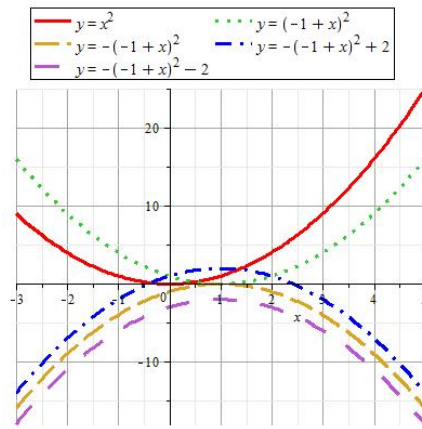
f)



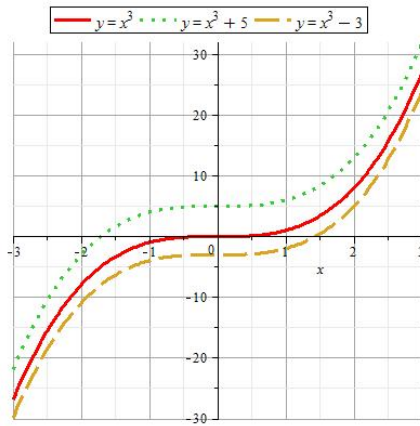
g)



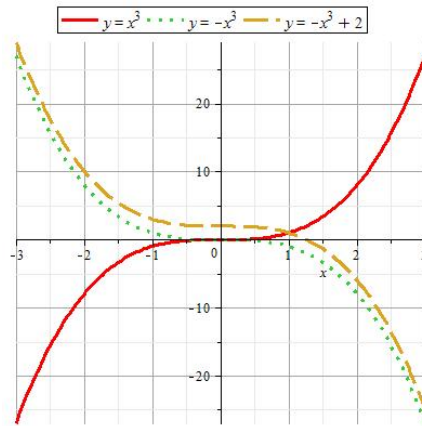
h)



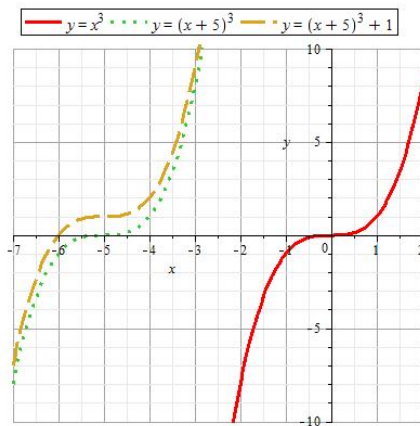
i)



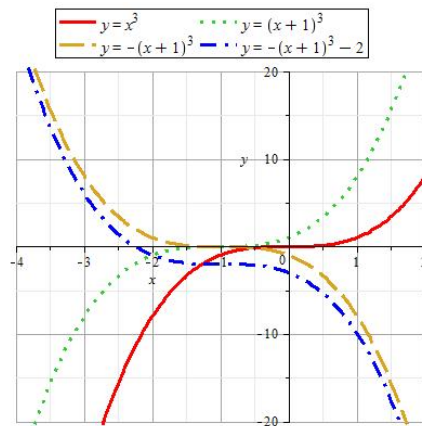
j)



k)

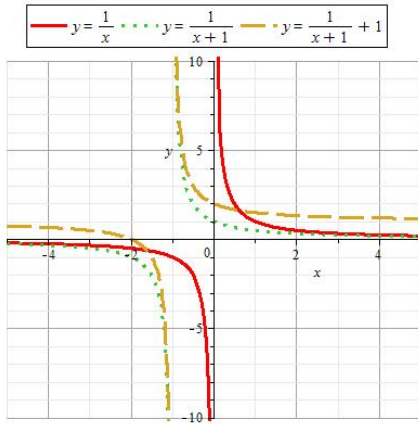


l)

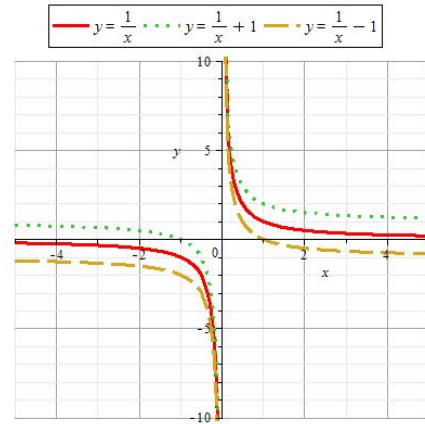


2.

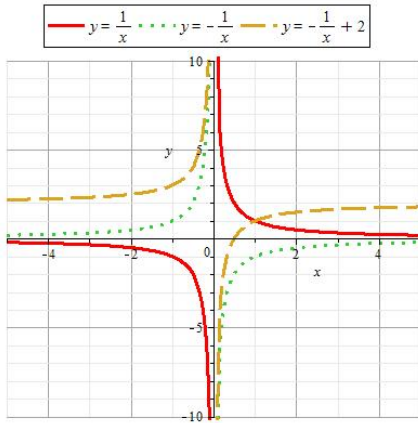
a)



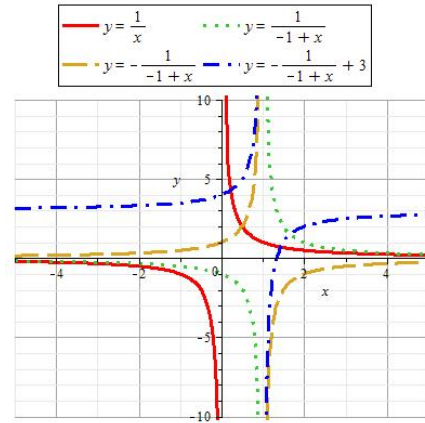
b)



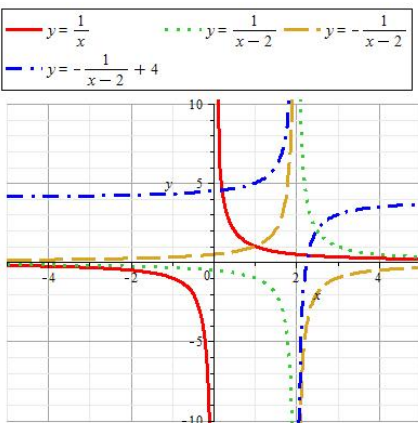
c)



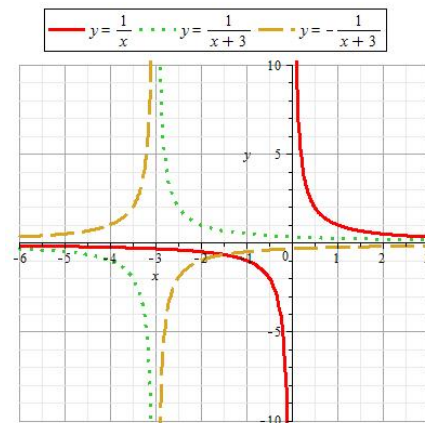
d)



e)

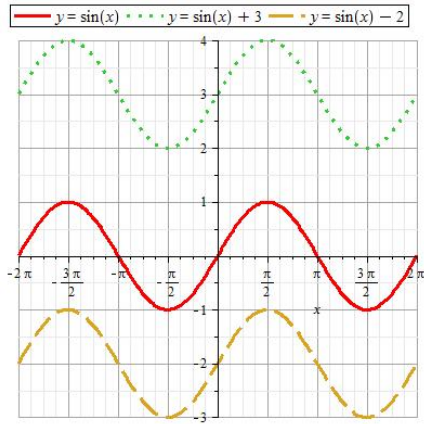


f)

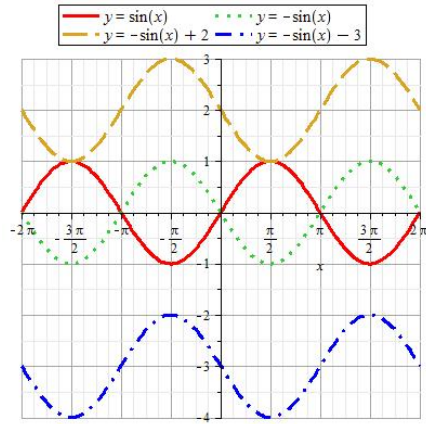


3.

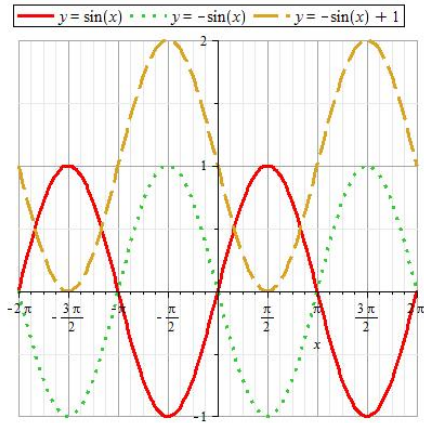
a)



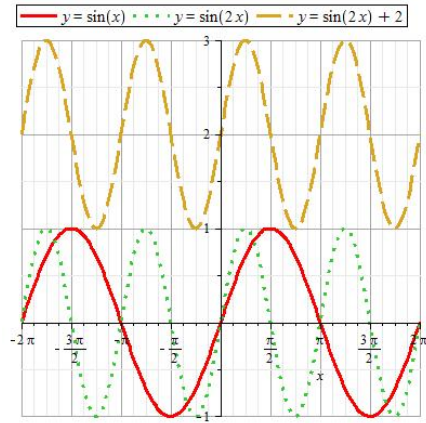
b)



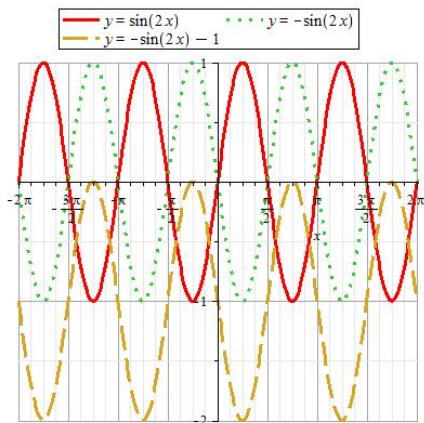
c)



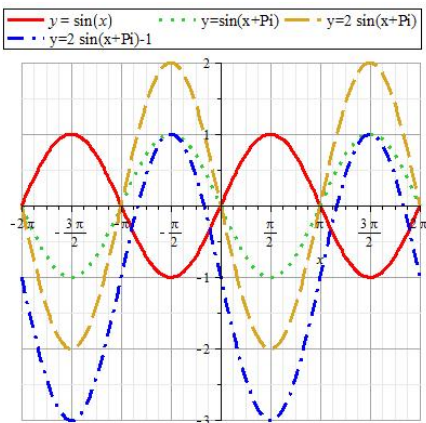
d)



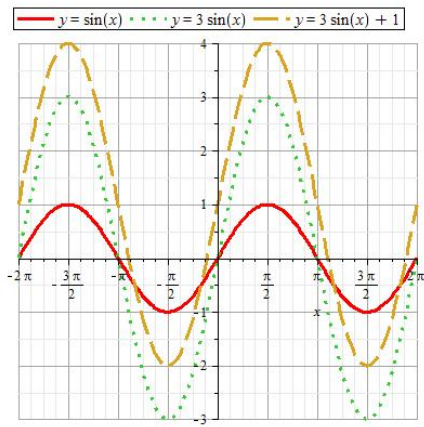
e)



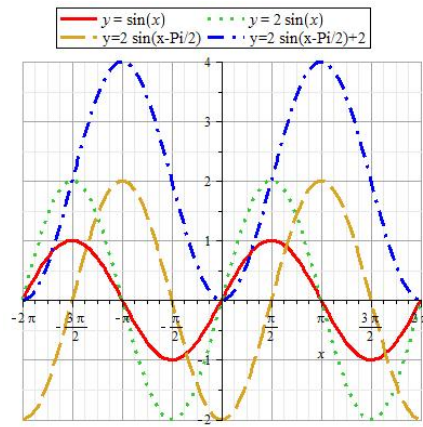
f)



g)

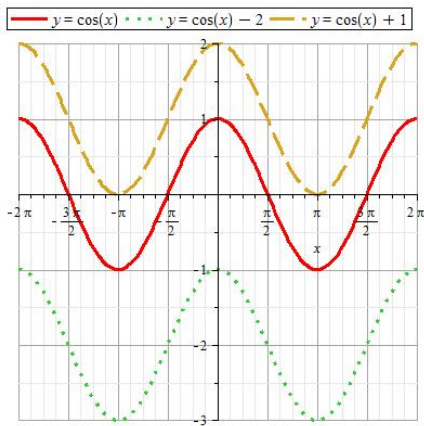


h)

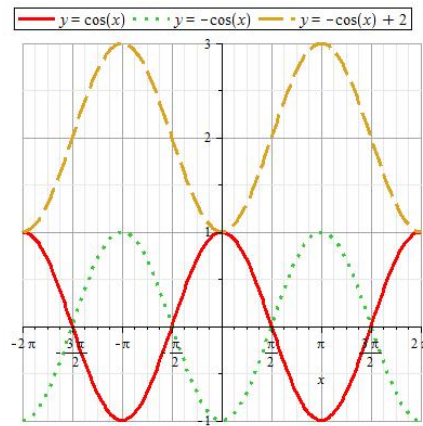


4.

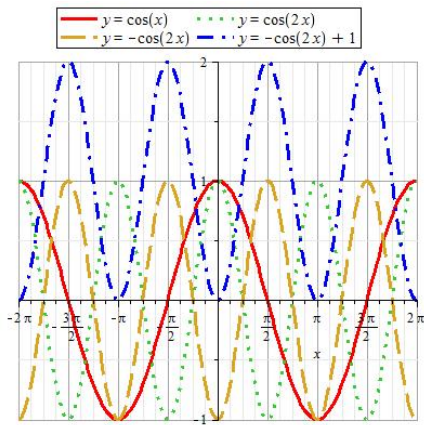
a)



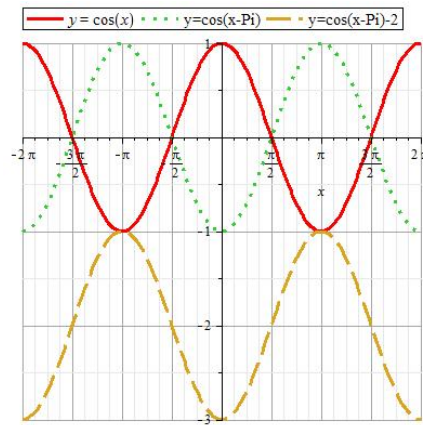
b)



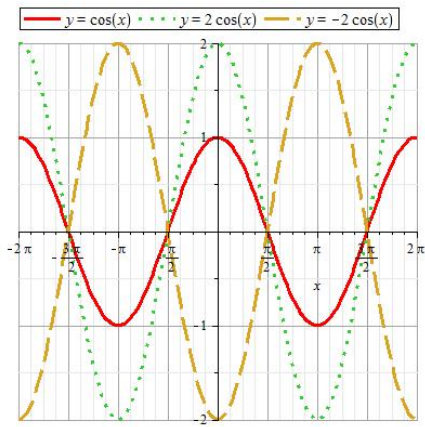
c)



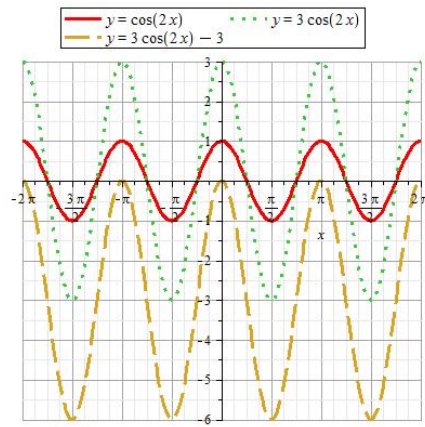
d)



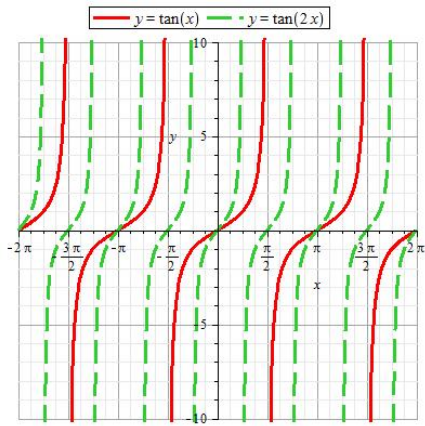
e)



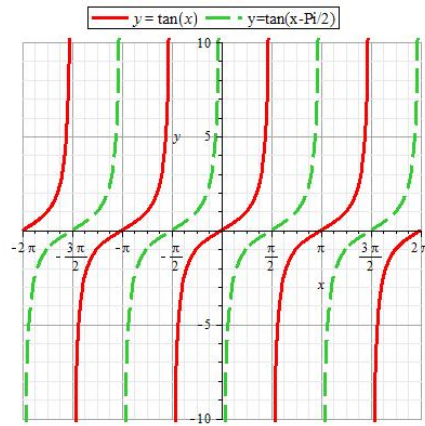
f)



g)

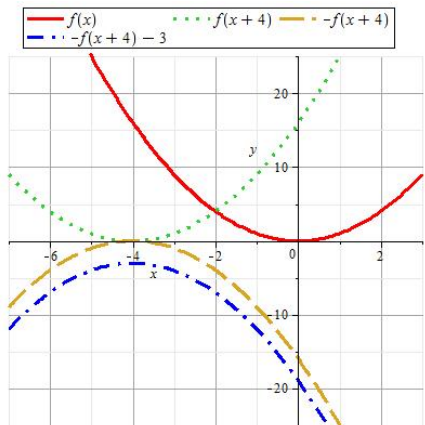


h)

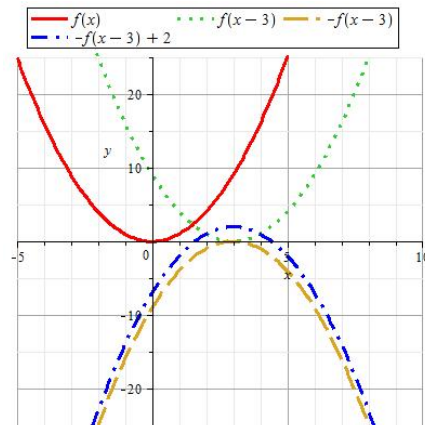


5.

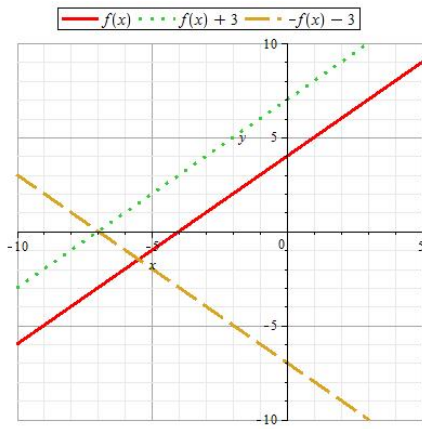
a)



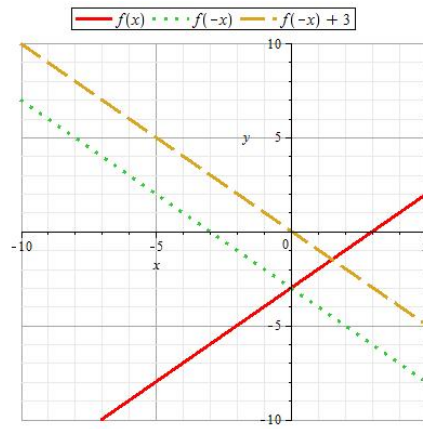
b)



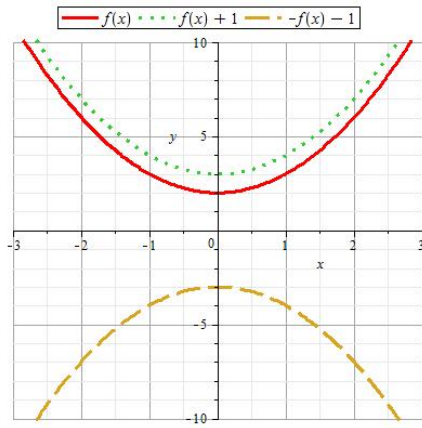
c)



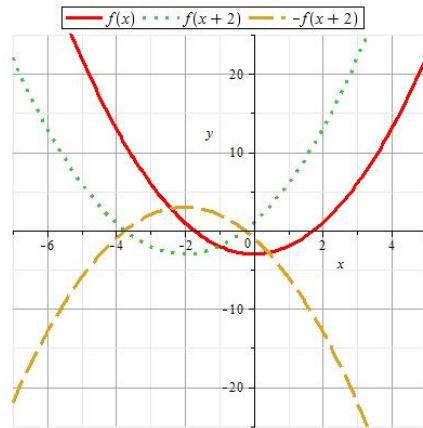
d)



e)



f)



6.

a) $g(x) = (x - 4)^2 - 1$

$h(x) = (x - 4)^2 - 3$

b) $g(x) = -x^2 - 3$

$h(x) = -(x - 3)^2 - 3$

c) $g(x) = -3x$

$h(x) = -3x - 4$

d) $g(x) = \cos(x - \frac{\pi}{3})$

$h(x) = \cos(x - \frac{\pi}{3}) + 2$

e) $g(x) = 2(x + 4)^2 + 5$

$h(x) = 2(x + 4)^2 + 2$

f) $g(x) = -1 + x$

$h(x) = 2 + x$

7.

a) $(-3, 7)$

b) $(-3, 2)$

c) $(-3, -4)$

d) $(-4, 4)$

e) $(-1, 7)$

f) $(-5, -6)$