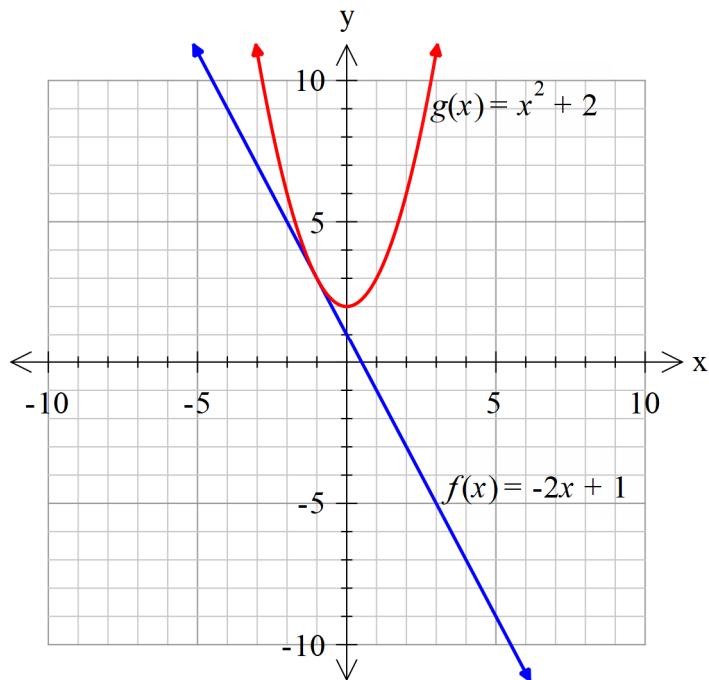


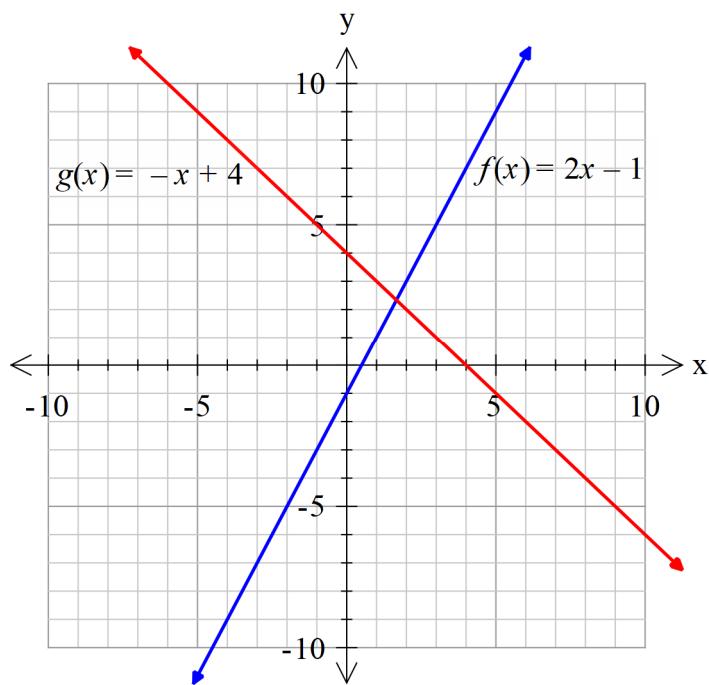
40S Pre-Calculus
Hand-in Assignment 5
Name _____**/ 23 marks**

1. On the same grid, sketch the following:

a) $(f + g)(x)$ (2 marks)



b) $\frac{f(x)}{g(x)}$ (2 marks)

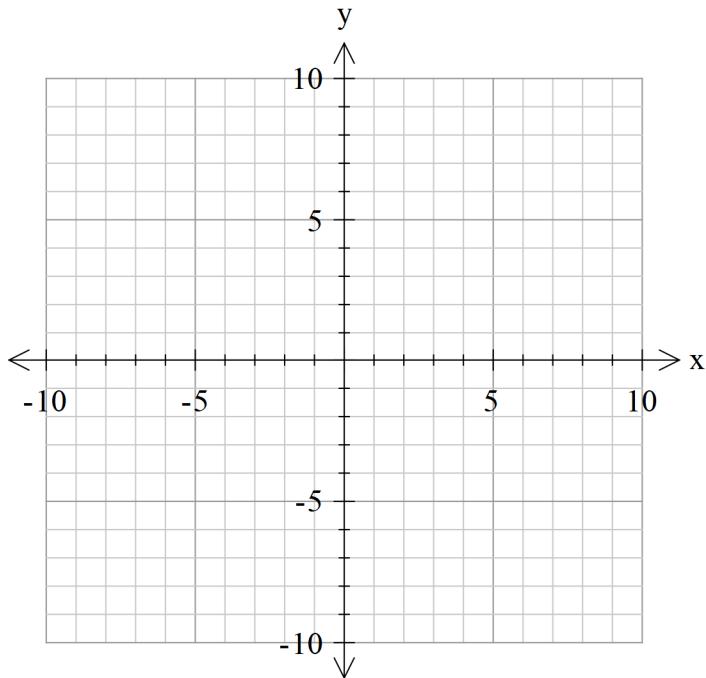


Due Date: _____

2. Consider $f(x) = x + 4$ and $g(x) = x - 2$.

a) Write the explicit equation of $p(x) = f(x) \cdot g(x)$. (1 mark)

b) Graph $p(x) = f(x) \cdot g(x)$. (4 marks)



c) State the domain and range of $p(x)$. (2 marks)

Due Date: _____

3. Given that $f(x) = 2x - 1$ and $g(x) = \sqrt{x + 6}$. Determine the following. Make sure to show your work.

a) $(f + g)(0)$ (2 marks)

b) $(f - g)(3)$ (2 marks)

c) $(f \cdot g)(0)$ (2 marks)

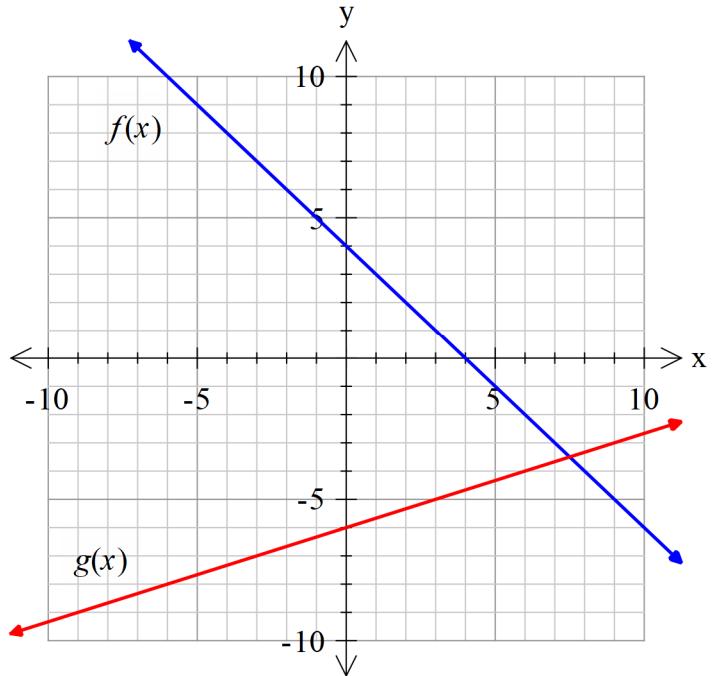
d) $\frac{f(3)}{g(3)}$ (2 marks)

Due Date: _____

4. Given the graphs below of $f(x)$ and $g(x)$,

a) Write the explicit equation of $n(x) = f(x) + g(x)$

(2 marks)



b) State the domain and range of $n(x)$.

(2 marks)