MA 109: September 29

Transformations: Shifts

Start of Class

Instructor Information
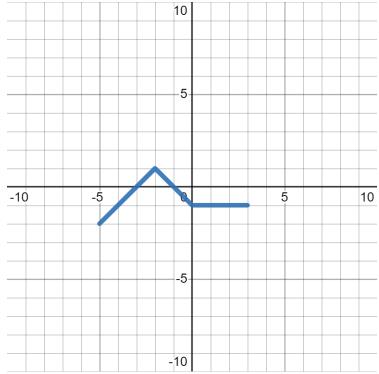
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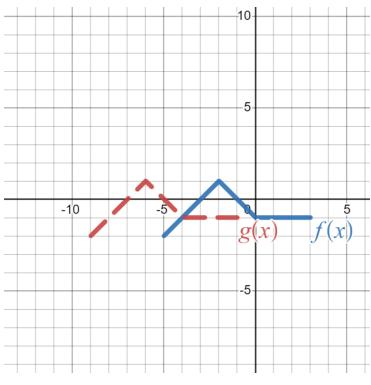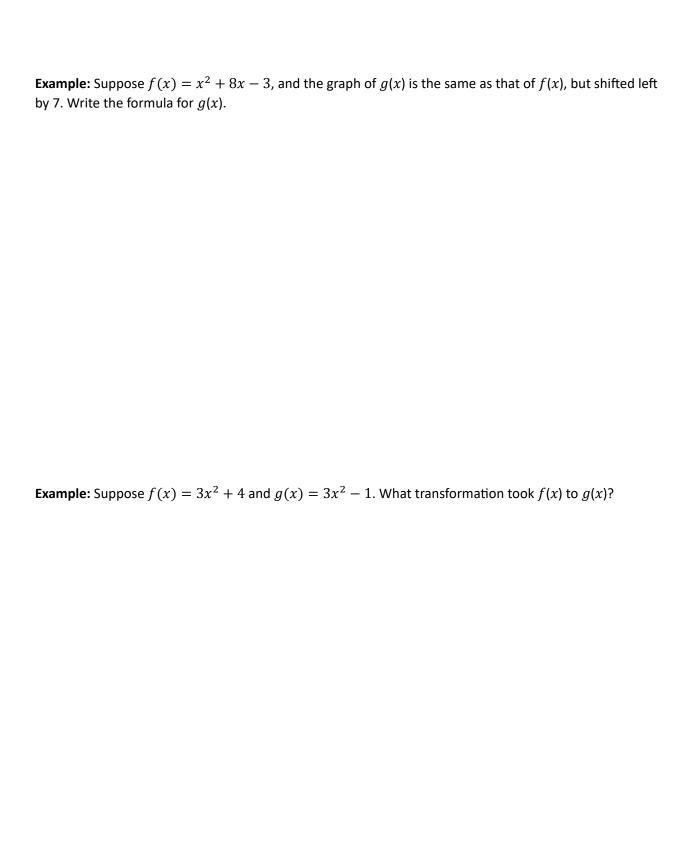**Office Hours:**

Warm-up Questions

Notes

Example: Suppose $f(x)$ is given in the graph to the right. Draw the graph of $f(x)-4$.

Example: Suppose $f(x)$ and $g(x)$ are given in the graph to the right.

If $f(x)$ is our original function, write the formula for $g(x)$ in terms of $f(x)$.

Example: Suppose $f(x) = x^2 + 8x - 3$, and the graph of $g(x)$ is the same as that of $f(x)$, but shifted left by 7. Write the formula for $g(x)$.

Example: Suppose $f(x) = 3x^2 + 4$ and $g(x) = 3x^2 - 1$. What transformation took $f(x)$ to $g(x)$?

End of Class

Write a summary of what you learned today:

What questions do you have about the material from today?

What do you need to do between now and the next class meeting?