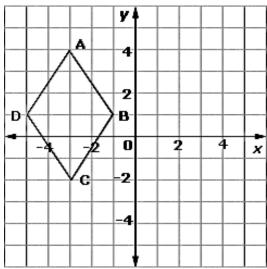
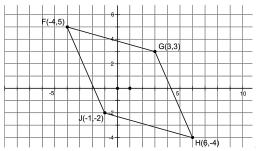
Mod 9 Review

- 1. What is the distance formula?
- 2. Use the distance formula to calculate the EXACT distance between the following two points a. (3,8) and (9, 10)
 - b. (-8, 10) and (-6, 7)
 - c. (9.5, -3.4) and (-2.1, 12.7)
 - d. (101, 98) and (-23, 40)
- 3. What is the definition of a...
 - a. Parallelogram
 - b. Rectangle
 - c. Rhombus
 - d. Square
- 4. Prove that the following is a **RHOMBUS** using the coordinate grid. **Explain** how you used the coordinate grid to prove that this is true.



5. Prove that the following is a **PARALLELOGRAM** using the coordinate grid. **Explain** how you used the coordinate grid to prove that this is true.



6. Prove that the following is a **SQUARE** using the coordinate grid. **Explain** how you used the coordinate grid to prove that this is true.

If f(x) = g(x) - 2, and g(x) = 3x - 5, then...

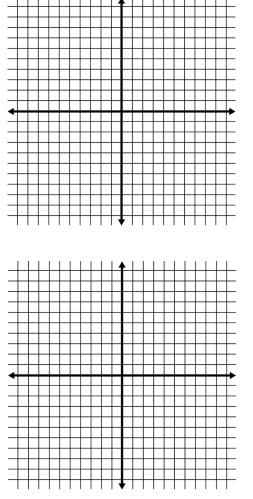
- 7. Which graph is higher on the graph g(x) or f(x)
- 8. The explicit function for f(x) would be...

If f(x) = g(x) + 2, and $g(x) = -\frac{4}{3}x + 2$, then... 9. Graph f(x) and g(x) and label them.

If f(x) = g(x) - 5, and $g(x) = 3 \cdot 9^x$, then...

- 10. What is the y-intercept of f(x)?
- 11. The explicit function for f(x) would be...

If f(x) = g(x) + 3, and $g(x) = \frac{1}{4} \cdot 2^x$, then... 12. Graph f(x) and g(x) and label them.



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