

Week 2 Material
Pre-Test

Solve each of the following Linear Equations (2 points each):

1. $x + 8 = 15$	2. $x - 10 = 75$
3. $8x = 96$	4. $\frac{x}{7} = 11$

Solve each of the following Quadratic Equations (2 points each):

5. $2c^2 + 56c = -392$	6. $-x^2 = -12x + 27$
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Solve the given Polynomial (4 points):

7. $2n^4 - 27n^2 = -3n^3$

Solve each of the following Exponential Equations (2 points each):

8. $8^{3x+2} = 16^{-x-5}$	9. $2^{x+2} = 2^{-3x-7}$
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Solve each of the following Logarithmic Equations (2 points each):

10. $\log_9(7x - 5) = \log_9(-10)$	11. $-2 = \log 2 - \log(3 + x)$
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Identify the midpoint of each of the following (2 points each):

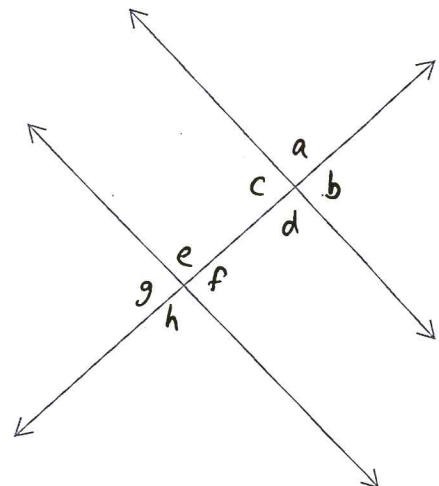
12. $(-5,7) \text{ \& } (8,-12)$	13. $(3,-1) \text{ \& } (4,0)$
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Find the distance between the given points:

14. $(-5,7) \text{ \& } (8,-12)$	15. $(3,-1) \text{ \& } (4,0)$
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Identify each of the following using the diagram to the right:

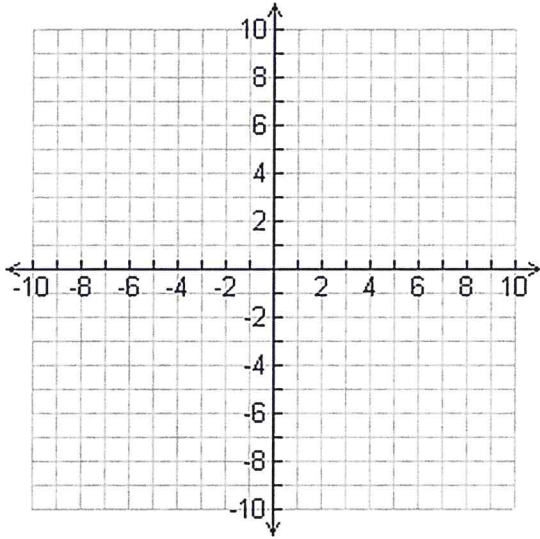
16. List all the pairs of Corresponding Angles.
17. List all the pairs of Alternate Interior Angles.
18. List all the pairs of Alternate Exterior Angles.
19. List the Same-Side Interior Angles.
20. List all of the Vertical Angles.



Graph each of the following functions:

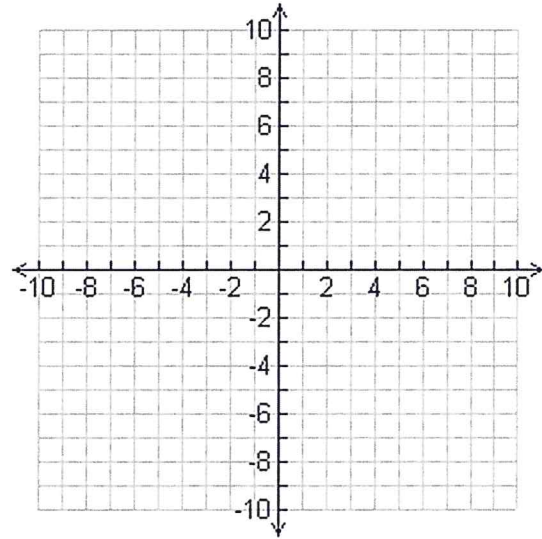
21. LINEAR

$$y = -3x + 4$$



22. QUADRATIC

$$f(x) = -x^2 - 8x - 7$$



Graph each of the following functions:

23. RATIONAL FUNCTION

$$f(x) = \frac{-1}{x-2}$$

