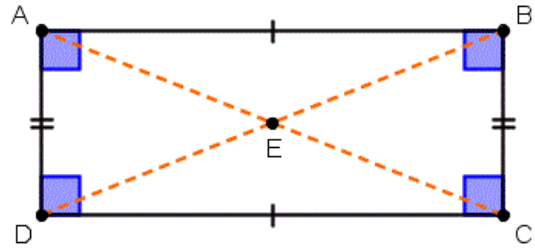


6.REV.3 – END OF CHAPTER REVIEW

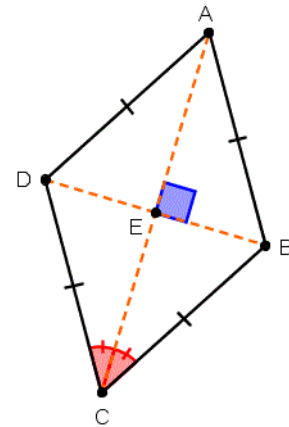
RECTANGLES

1. Set up and solve an equation to find the value of m if $m\angle ADB = 9m - 6$ and $m\angle BDC = 2m + 8$.
2. Set up and solve a quadratic equation to find the value of n (that makes sense) if $AC = 5n^2 - 8$ and $BD = -18n$.



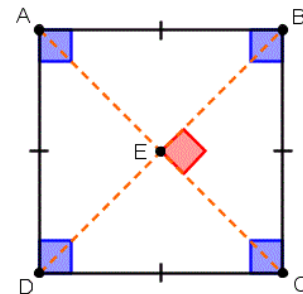
RHOMBI

3. Set up and solve a system of equations to find the values of x and y if $AE = -20x - 30y$, $BE = -6x + 10y$, $CE = 20$, & $DE = 44$. What is the area of $ABCD$?
4. Set up and solve an equation to find the value of d if $m\angle DCA = 6d - 2$ and $m\angle BCA = 4d + 8$.



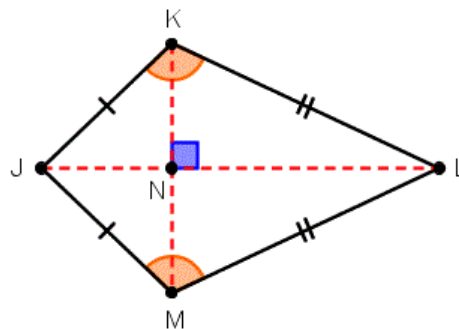
SQUARES

5. Set up and solve two equations to find the values of m and n if $AB = 2m - 7$, $BC = 2n - 5$, $CD = 3n - 9$, and $AD = n - 1$.
6. Set up and solve a system of equations if $AB = 9x - 6y$, $CD = 4x - 4y$, & $BC = 24$.



KITES

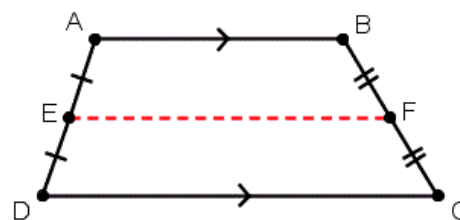
7. Set up and solve a system of equations to find the values of x and y if $JK = 18$, $KL = 57$, $JM = 2x + 8y$, $LM = y - 18x$.



8. Set up and solve a quadratic equation to find the value of x (that makes sense) if $m\angle JKL = 8x$ & $m\angle JML = 2x^2 - 10$.

TRAPEZOIDS

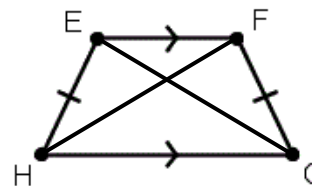
9. Set up and solve an equation to find the value of w if $m\angle D = 11w + 8$ and $m\angle A = 95^\circ$.



10. Set up and solve an equation to find the value of x if $AB = x$, $CD = 4x + 7$, & $EF = 2x + 4$

ISOSCELES TRAPEZOIDS

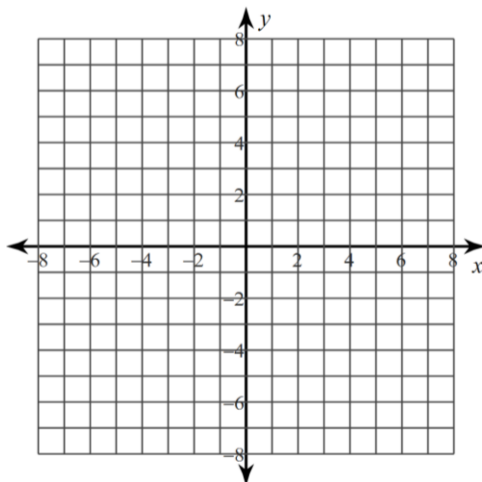
11. Set up and solve a quadratic equation to find the value of a (that makes sense) if $m\angle EHG = 3a^2 - 60$ & $m\angle FGH = -8a$. Then find $m\angle HEF$.



12. Set up and solve a system of equations to find the values of x and y if $EH = -34x - 16y$, $FG = 18$, $EG = 24$, and $FH = 7y - 17x$.

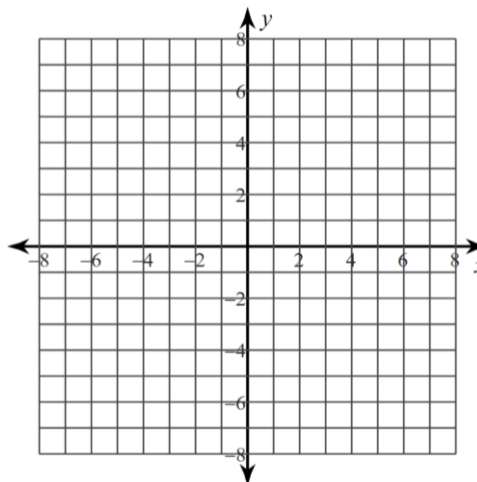
Graph the quadrilateral described. Find the indicated measures. Explain why $FGHJ$ is the quadrilateral identified.

13. $F(-4, -2), G(-2, 2), H(4, 3), J(2, -1)$



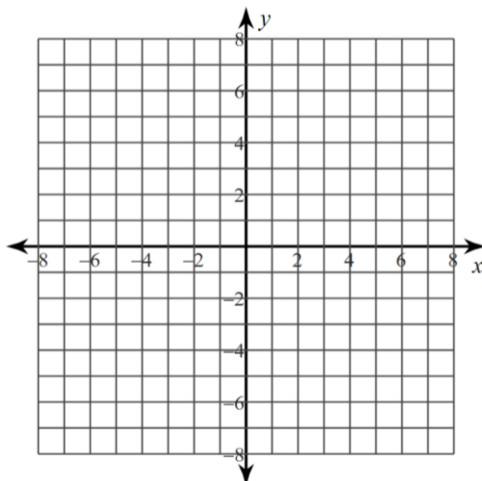
Find $m_{FG}, m_{HJ}, FG,$ & HJ . Explain how these measurements prove that $FGHJ$ is a parallelogram.

14. $F(-4, -1), G(-3, 2), H(3, 0), J(2, -3)$



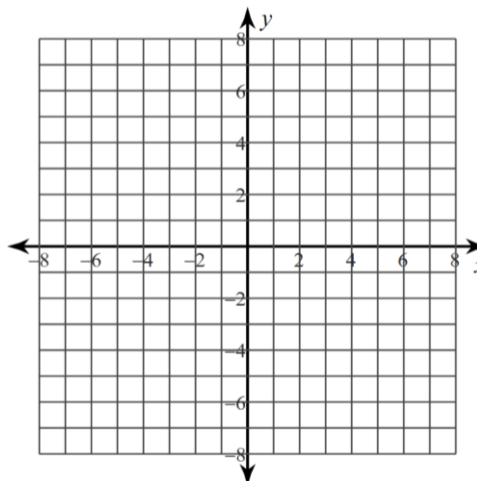
Find m_{FG}, m_{HJ}, m_{GH} & m_{FJ} . Explain how these measurements prove that $FGHJ$ is a parallelogram and a rectangle.

15. $F(-5, -1), G(-2, 4), H(3, 1), J(0, -4)$



Find $m_{FG}, m_{HJ}, m_{GH}, m_{FJ}, m_{FH}$ & m_{GH} . Explain how these measurements prove that $FGHJ$ is a parallelogram and a square.

16. $F(-4, -3), G(0, 3), H(4, 3), J(8, -3)$



Find $m_{GH}, m_{FJ}, m_{GF}, m_{HJ}, FH$ & GJ . Explain how these measurements prove that $FGHJ$ is an isosceles trapezoid.