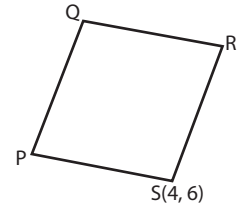


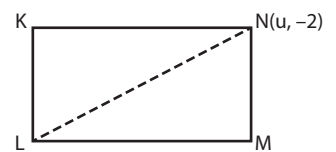
# Identifying Unknowns

- 1) If  $S(4, 6)$  is a vertex of the rhombus PQRS and the equation of SR is given by  $mx - 3y = 14$ , then find the value of m.



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- 2) KLMN is a rectangle. If  $N(u, -2)$  lies on the diagonal LN whose equation is  $-x + 2y = 10$ , then what is the value of u.



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- 3) In the circle,  $O(9, s)$  is the center and diameter WX is 10 units long.

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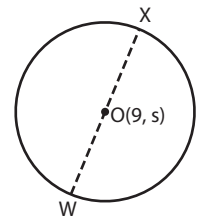
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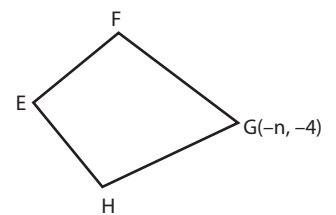
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- 4) EFGH is a kite. If  $G(-n, -4)$  is a vertex and the area is 12 square units.

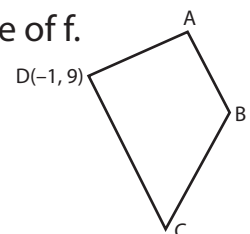
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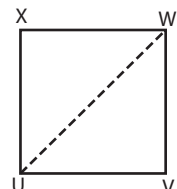
- 5) If  $D(-1, 9)$  is a vertex of the parallelogram ABCD and the area is 12 square units, find the value of f.

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- 6) UVWX is a square whose diagonal UW has the equation  $-x - y = 9$ . If  $(-k, -12)$  is the intersecting point of the diagonal UW and the side UV, then find k.



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