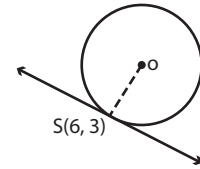
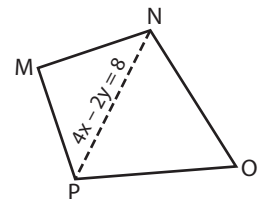


Identifying Unknowns

- 1) The equation of a tangent is $5x - ty = 60$ and the radius meets the tangent at $S(6, 3)$. What is the value of t ?



- 2) If $N(b, -8)$ is a vertex of the kite $MNOP$ and the equation of \overline{NP} is given by $4x - 2y = 8$, then find the value of b .



- 3) $KLMN$ is a square then what is the

PREVIEW

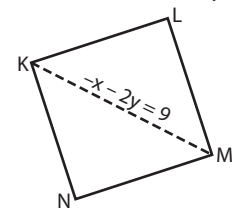
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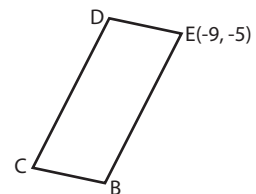
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equation is $-x - 2y = 9$,



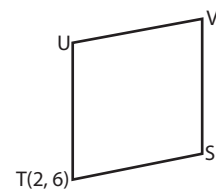
- 4) $BCDE$ is a parallelogram passing through E

the line containing \overline{BE} which

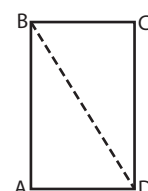


- 5) If $T(2, 6)$ is a vertex of the square $STUV$ whose equation is $kx + 5y = 28$, then find the value of k .

the equation of \overline{ST} is given by

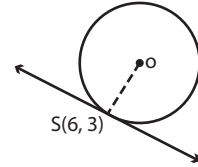


- 6) $ABCD$ is a rectangle. If $D(v, -7)$ lies on the diagonal \overline{BD} whose equation is $8x + 5y = -3$, then what is the value of v ?



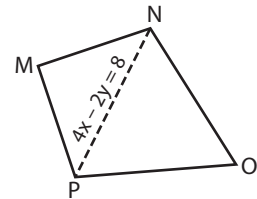
Identifying Unknowns

- 1) The equation of a tangent is $5x - ty = 60$ and the radius meets the tangent at $S(6, 3)$. What is the value of t ?



$t = -10$

- 2) If $N(b, -8)$ is a vertex of the kite $MNOP$ and the equation of \overline{NP} is given by $4x - 2y = 8$, then find the value of b .



$b = -2$

- 3) $KLMN$ is a square then what is the

PREVIEW

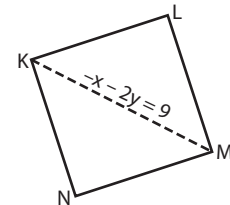
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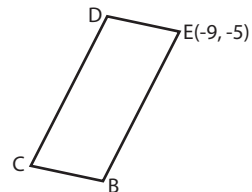
equation is $-x - 2y = 9$,



$u = -1$

- 4) $BCDE$ is a parallelogram passing through E

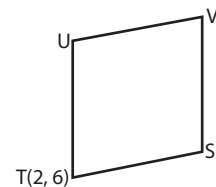
line containing \overline{BE} which



$a = 2$

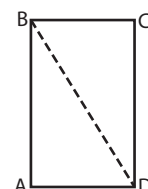
- 5) If $T(2, 6)$ is a vertex of a square $STUV$ whose equation is $kx + 5y = 28$, then

the equation of \overline{ST} is given by



$k = -1$

- 6) $ABCD$ is a rectangle. If $D(v, -7)$ lies on the diagonal \overline{BD} whose equation is $8x + 5y = -3$, then what is the value of v ?



$v = 4$
