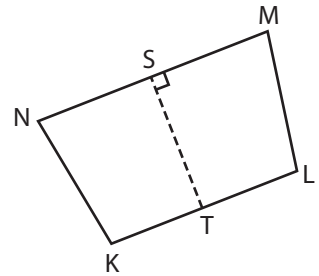


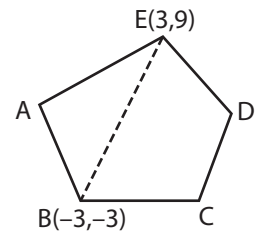
Equation of a Line

- 1) Find the equation of the line ST which passes through the point (2, -6) and perpendicular to the line MN. The slope of the line MN is  $\frac{2}{5}$ .



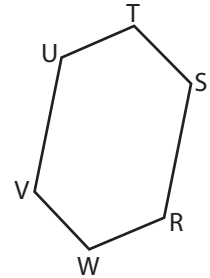
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- 2) ABCDE is a pentagon. A line passes through two points E(3, 9) and B(-3, -3) of the pentagon. Find the equation of the line BE.



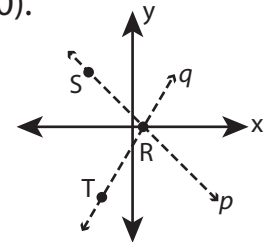
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- 3) RSTUVW is a hexagon. Find the equation of the line RS which passes through the point (0, 8) and parallel to the line UV with the slope of 5.



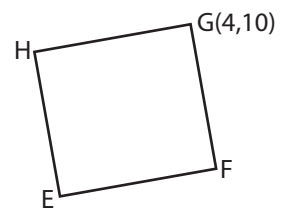
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- 4) Find the equation of the lines p and q that passes through the point S(-5, 6) and point T(-3, -7) respectively and they intersect at the point R(1, 0).



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- 5) Write the equation of the line GH passing through the point G(4, 10) and parallel to the line EF whose equation is  $-6x - y + 9 = 0$ .



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