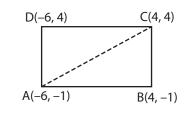
## **K8**wörksheets

## **Equation of a Line**

1) AC is the diagonal of the rectangle ABCD. Find the equation of the diagonal.



WS #1

2) A line p cuts the x-axis at M (8, 0) and y-axis at N (0, -10). Find the equation of the line *p*.

- 3) Find the equation of the tangent whose slope is -9 and touches the circle at the point (-2, 3).
- 4) RST is a triangle. The equation of the line RS is y = x + 1 and it is perpendicular to the line UT that passes through the point (-5, -7). Find the equation of the line UT.
  - 5) The lines u and v intersect at the point Q(4, 3). Line v passes through the point E(-2, 9) and line *u* passes through the point F(1, -3). Find the equation of the lines u and v.

