

Parallel and Perpendicular Lines

Sheet 4

- 1) Write the equation of the line passing through the point (8, 1) and perpendicular to the line joining the points (3, 4) and (9, 2).

- 2) The line k passes through the point (7, -6) and parallel to the line h which has a slope of 9. Find

- 3) Find the equation of the line passing through the point (2, 3) and perpendicular to the line l which has a slope of $-\frac{1}{2}$. Find the equation of the line m which is parallel to l and passes through the point (5, 7).

- 4) A line s passing through the point (3, 4) and perpendicular to the line t which has a slope of $-\frac{1}{2}$. Find the equation of the line s and the equation of the line t that cuts the x and y axis at (9, 0) and (0, 6) respectively.

- 5) Find the equation of the line passing through the point (-2, 3) and perpendicular to the line $y = \frac{5}{3}x - 10$.

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Answer key**Parallel and Perpendicular Lines**

Sheet 4

- 1) Write the equation of the line passing through the point (8, 1) and perpendicular to the line joining the points (3, 4) and (9, 2).

$$\underline{3x - y = 23}$$

- 2) The line k passes through the point (7, -6) and parallel to the line h which has a slope of 9. Find

$$\underline{9x - y = 69}$$

- 3) Find the equation of the line passing through the point (2, 3) and perpendicular to the line $2x + 3y = 0$ and passes through the point (4, 5).

$$\underline{5x - y = 17}$$

- 4) A line s passing through the point (3, 2) and perpendicular to the line t that cuts the x and y axes at (4, 0) and (0, 3) respectively.

$$\underline{7x - 9y = 33}$$

- 5) Find the equation of the line passing through the point (-2, 3) and perpendicular to the line $y = \frac{5}{3}x - 10$.

$$\underline{3x + 5y = 9}$$

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