

## 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  $(9, 2)$ .

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

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- 3) Find the equation of the line passing through the point  $(-1, 2)$  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  $(3, 4)$ .

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- 4) A line  $s$  passing through the point  $(-2, 3)$  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  $(3, 0)$  and  $(0, 4)$  respectively.

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- 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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