

## Parallel and Perpendicular Lines

Sheet 2

- 1) The line  $u$  passing through the point  $(6, 8)$  and perpendicular to the line  $v$  whose slope is  $\frac{3}{5}$ . Find the equation of the line  $u$ .

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- 2) Find the equation of the line that is parallel to the line  $7x - y + 3 = 0$  and passes through the point  $(-2, 4)$ .

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- 3) Write the equation of the line that is perpendicular to the line  $4x - 8y + 16 = 0$  and passes through the point  $(-2, 4)$ .

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- 4) The line  $m$  passing through the point  $(-2, 4)$  and perpendicular to the line  $n$  which has a slope of  $-\frac{1}{2}$ . Find the equation of the line  $m$ .

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

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