

Name : _____

Parallel and Perpendicular Lines

Sheet 1

- 1) A line u passes through $(6, 1)$ and $(8, p)$. A line v passes through $(2, -3)$ and $(10, -6)$. The lines u and v are parallel. Find the value of p .

$p =$ _____

- 2) \overleftrightarrow{PQ} passes through $(-5, 6)$ and $(1, 0)$. \overleftrightarrow{RS} passes through $(t, -1)$ and $(2, 9)$. The lines PQ and RS are perpendicular. Find the value of t .

$t =$ _____

- 3) A line g passes through $(-2, 3)$ and $(4, 7)$. A line h passes through $(1, 2)$ and $(5, 6)$. The lines g and h are parallel, find the value of d .

$d =$ _____

- 4) A line passes through $(-3, 5)$ and $(7, 1)$. A line l passes through $(-5, k)$ and $(1, 3)$. The lines are perpendicular. Find the value of k .

$k =$ _____

- 5) A line m passes through $(-9, -5)$ and $(-7, 0)$. A line n passes through $(-6, -8)$ and $(-4, g)$. The lines m and n are parallel. Find the value of g .

$g =$ _____

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