

Name : _____

Parallel and Perpendicular Lines

Sheet 5

- 1) \overleftrightarrow{EF} passes through $(-6, 5)$ and $(-8, 10)$. \overleftrightarrow{GH} passes through $(-4, 9)$ and $(-9, d)$. If $\overleftrightarrow{EF} \perp \overleftrightarrow{GH}$, find the value of d .

$d =$ _____

- 2) A line a passes through $(-9, u)$ and $(-6, -4)$. Slope of a line b is -3 . Line a is parallel to line b . Find the value of u .

$u =$ _____

- 3) A line u passes through $(7, 3)$ and $(4, 5)$. The lines u and v are parallel. Find the value of f .

$f =$ _____

- 4) A line c passes through $(-1, 2)$ and $(3, -6)$. Another line d passes through $(-2, 5)$ and $(4, -1)$. Line c is perpendicular to line d . Find the value of x .

$x =$ _____

- 5) A line passes through $(2, -5)$ and $(-2, r)$. Another line passes through $(-1, -10)$ and $(3, -6)$. The lines are parallel. Find the value of r .

$r =$ _____

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