

Name : _____

Parallel and Perpendicular Lines

Sheet 2

- 1) A line passes through $K(3, 1)$ and $L(2, w)$. Another line passes through $M(2, 5)$ and $N(8, 6)$. If $\overleftrightarrow{KL} \perp \overleftrightarrow{MN}$, find the value of w .

$w =$ _____

- 2) A line t passes through $(-10, 0)$ and $(-5, b)$. Slope of a line u is 3. Line t is parallel to line u . Find the value of b .

$b =$ _____

- 3) A line p passes through $(-3, -9)$ and $(h, -8)$. The lines p and q are perpendicular. Find the value of h .

$h =$ _____

- 4) \overleftrightarrow{EF} passes through $(-2, 4)$ and $(z, 1)$. \overleftrightarrow{GH} passes through $(7, -7)$. \overleftrightarrow{EF} and \overleftrightarrow{GH} are parallel. Find the value of z .

$z =$ _____

- 5) A line passes through $(-9, 3)$ and $(-5, m)$. Slope of another line is $\frac{7}{5}$. If the lines are perpendicular, find the value of m .

$m =$ _____

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Parallel and Perpendicular Lines

- 1) A line passes through $K(3, 1)$ and $L(2, w)$. Another line passes through $M(2, 5)$ and $N(8, 6)$. If $\overleftrightarrow{KL} \perp \overleftrightarrow{MN}$, find the value of w .

$$w = \underline{\quad 7 \quad}$$

- 2) A line t passes through $(-10, 0)$ and $(-5, b)$. Slope of a line u is 3. Line t is parallel to line u . Find the value of b .

$$b = \underline{\quad 15 \quad}$$

- 3) A line p passes through $(-3, -9)$ and $(h, -8)$. The lines p and q are perpendicular. Find the value of h .

$$h = \underline{\quad -\frac{3}{5} \quad}$$

- 4) \overleftrightarrow{EF} passes through $(-2, 3)$ and $(-1, 7)$. \overleftrightarrow{GH} passes through $(7, -7)$ and $(z, -2)$. \overleftrightarrow{EF} and \overleftrightarrow{GH} are parallel. Find the value of z .

$$z = \underline{\quad -20 \quad}$$

- 5) A line passes through $(-9, 3)$ and $(-5, m)$. Slope of another line is $\frac{7}{5}$. If the lines are perpendicular, find the value of m .

$$m = \underline{\quad \frac{1}{7} \quad}$$

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