

Name : _____

Parallel and Perpendicular Lines

Sheet 3

- 1) A line passes through $(n, 4)$ and $(3, 5)$. Another line passes through $(5, -10)$ and $(7, -9)$. The lines are parallel. Find the value of n .

$n =$ _____

- 2) A line p passes through $(8, -3)$ and $(u, 6)$. A line q passes through $(1, 2)$ and $(2, 11)$. The lines p and q are parallel. Find the value of u .

$u =$ _____

- 3) \vec{AB} passes through $(-2, 3)$ and $(7, q)$. If $\vec{AB} \perp \vec{CD}$, find the value of q .

$q =$ _____

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

$d =$ _____

- 5) A line passes through $Q(3, 9)$ and $R(4, 14)$. Another line passes through $S(2, 6)$ and $T(k, 11)$. The lines are parallel. Find the value of k .

$k =$ _____

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Parallel and Perpendicular Lines

- 1) A line passes through $(n, 4)$ and $(3, 5)$. Another line passes through $(5, -10)$ and $(7, -9)$. The lines are parallel. Find the value of n .

$$n = \underline{\quad 1 \quad}$$

- 2) A line p passes through $(8, -3)$ and $(u, 6)$. A line q passes through $(1, 2)$ and $(2, 11)$. The lines p and q are parallel. Find the value of u .

$$u = \underline{\quad 9 \quad}$$

- 3) \overleftrightarrow{AB} passes through $(-2, 5)$ and $(7, q)$. If $\overleftrightarrow{AB} \perp \overleftrightarrow{CD}$, find the value of q .

$$q = \underline{\quad -5 \quad}$$

- 4) A line u passes through $(-1, 2)$ and $(d, -3)$. Line u is perpendicular to line v . Find the value of d .

$$d = \underline{\quad -\frac{5}{2} \quad}$$

- 5) A line passes through $Q(3, 9)$ and $R(4, 14)$. Another line passes through $S(2, 6)$ and $T(k, 11)$. The lines are parallel. Find the value of k .

$$k = \underline{\quad 3 \quad}$$

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