Name : _____

Parallel and Perpendicular Lines

Sheet 4

1) A line *m* passes through (–2, –7) and (1, s). Slope of a line *n* is –1. Line *m* is perpendicular to line *n*. Find the value of s.

s = _____

2) A line passes through (t, –3) and (–3, –6). Another line passes through (–5, –6) and (–2, –9). The lines are parallel. Find the value of t.

t = _____

3) A line *u* passes thr h (–2, 6) and (1, 9). The lines *u* and *v* a

b = _____

4) $\overleftrightarrow{AB}$ passes through nd (9, 5). If $\overleftrightarrow{AB} \perp \overleftrightarrow{CD}$, find the value of k

k = _____

5) A line passes through U(3, 9) and V(6, 6). Another line passes through W(y, 6) and X(5, 8). The lines are parallel. Find the value of y.

y = _____

Name : _____

Answer Key

Sheet 4

Parallel and Perpendicular Lines

1) A line *m* passes through (–2, –7) and (1, s). Slope of a line *n* is –1. Line *m* is perpendicular to line *n*. Find the value of s.

s = **–4**

2) A line passes through (t, –3) and (–3, –6). Another line passes through (–5, –6) and (–2, –9). The lines are parallel. Find the value of t.

t = **–6**

3) A line *u* passes thr … h (–2, 6) and (1, 9). The lines *u* and *v* a …

b = **0**

4) $\overleftrightarrow{AB}$ passes through … nd (9, 5). If $\overleftrightarrow{AB} \perp \overleftrightarrow{CD}$, find the value of k …

k = **–5**

5) A line passes through U(3, 9) and V(6, 6). Another line passes through W(y, 6) and X(5, 8). The lines are parallel. Find the value of y.

y = **3**