Name : _____

Parallel and Perpendicular Lines

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 thr   (7, 3) and (4, 5).
   The lines *u* and *v* a

f = _____

4) A line *c* passes thr   e *c* is perpendicular
   to line *d*. Find the

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 = _____