Practice worksheet | Vectors in two dimensions

Parallelism and collinearity

Name: _____ Date: _____

6 questions | 15 marks

1. Are $(2, 5)$ and $(6, 15)$ parallel? State a multiplier. [2 marks]

2. Are $(4, -2)$ and $(8, -5)$ parallel? Explain. [2 marks]

3. Find a if $(a, 6)$ is parallel to $(2, 3)$. [2 marks]

4. Show that $A=(-1,2)$, $B=(2,8)$, $C=(4,12)$ are collinear. [3 marks]

5. $A=(1,1)$, $B=(5,3)$, $C=(-1,0)$. Express AC as a multiple of AB and locate C. [3 marks]

6. Find t for which $(2+t,1-2t)$ is parallel to $(3,-1)$. [3 marks]