

Name \_\_\_\_\_ raw scaled percent

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**Math 11 Trimester 1 Quiz 4 (20 Points)**

*Vector basics*

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- **Partial credit is given for correct work even if your final answer is incorrect. It is to your advantage to show how you arrive at your answer.**

[1] Write the vector equation of the straight line through the point  $(5, -4)$  and perpendicular to vector  $\vec{v} = \langle 2, 3 \rangle$ .

[2] Rewrite the equation you found in [1] above in standard form; that is, in the form  $ax + by + c = 0$ .