Name : _____

Linear Combination of Vectors

A) Find the linear combination of given vectors.

1) If $\vec{p} = \langle -3, 6 \rangle$ and $\vec{q} = \langle -1, 2 \rangle$, find $4\vec{p} + 4\vec{q}$.

2) If $\vec{y} = \langle -4, -5 \rangle$ and $\vec{z} = \langle 0, -3 \rangle$, find $2\vec{y} - 5\vec{z}$.

3) If $\vec{c} = \langle 2, -8 \rangle$ and ... and $\vec{s} = \langle 5, 5 \rangle$, find $-\vec{d} - 5\vec{c}$.

5) If $\vec{q} = \langle -7, -8 \rangle$ an... and $\vec{x} = \langle -6, 1 \rangle$, find $3\vec{r} + 2\vec{q}$.

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B) 1) Which of the f... $\langle 4, 4 \rangle$?

a) $\langle 0, -20 \rangle$ b) $\langle -16, -20 \rangle$ c) $\langle 16, 0 \rangle$ d) $\langle -16, 0 \rangle$

2) Which of the following is $-\vec{b} + 4\vec{c}$, if $\vec{b} = \langle 2, 10 \rangle$ and $\vec{c} = \langle 8, 3 \rangle$?

a) $\langle 30, 2 \rangle$ b) $\langle 30, 12 \rangle$ c) $\langle 34, -2 \rangle$ d) $\langle -30, -12 \rangle$