

Vector Subtraction

A) Find the difference of two given vectors.

1) $\vec{x} = \langle 4, 5 \rangle$ and $\vec{y} = \langle 6, 8 \rangle$

2) $\vec{s} = \langle -3, -1 \rangle$ and $\vec{t} = \langle -10, -9 \rangle$

$\vec{y} - \vec{x} =$ _____

$\vec{t} - \vec{s} =$ _____

3) $\vec{v} = \langle 3, -5 \rangle$ and

and $\vec{a} = \langle 1, -6 \rangle$

$\vec{u} - \vec{v} =$ _____

5) $\vec{c} = \langle 8, 4 \rangle$ and

and $\vec{q} = \langle 9, 6 \rangle$

$\vec{d} - \vec{c} =$ _____

B) 1) If $\vec{y} = \langle 2, 7 \rangle$ and

a) $\langle 1, -8 \rangle$

b) $\langle -6, -1 \rangle$

c) $\langle 5, 8 \rangle$

d) $\langle -1, 6 \rangle$

2) If $\vec{r} = \langle 8, -5 \rangle$ and $\vec{s} = \langle -4, 10 \rangle$, what is $\vec{s} - \vec{r}$?

a) $\langle -12, 15 \rangle$

b) $\langle -12, -15 \rangle$

c) $\langle 4, 5 \rangle$

d) $\langle 5, 4 \rangle$

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