

**Vector Subtraction**

A) Find the difference of two given vectors.

1)  $\vec{n} = \langle -3, 0 \rangle$  and  $\vec{m} = \langle -1, -2 \rangle$

2)  $\vec{z} = \langle 5, -2 \rangle$  and  $\vec{y} = \langle 6, 7 \rangle$

$\vec{m} - \vec{n} =$  \_\_\_\_\_

$\vec{y} - \vec{z} =$  \_\_\_\_\_

3)  $\vec{p} = \langle 8, 10 \rangle$  and  $\vec{q} = \langle 1, 1 \rangle$  and  $\vec{t} = \langle 3, 2 \rangle$

$\vec{q} - \vec{p} =$  \_\_\_\_\_

5)  $\vec{a} = \langle -8, 5 \rangle$  and  $\vec{b} = \langle 2, 1 \rangle$  and  $\vec{v} = \langle 10, 4 \rangle$

$\vec{b} - \vec{a} =$  \_\_\_\_\_

B) 1) If  $\vec{g} = \langle -3, 6 \rangle$  and

a)  $\langle 1, -2 \rangle$

b)  $\langle -5, 10 \rangle$

c)  $\langle 1, 10 \rangle$

d)  $\langle 1, 2 \rangle$

2) If  $\vec{c} = \langle -9, 8 \rangle$  and  $\vec{d} = \langle -5, 7 \rangle$ , what is  $\vec{c} - \vec{d}$ ?

a)  $\langle -14, 15 \rangle$

b)  $\langle -4, 1 \rangle$

c)  $\langle 4, -1 \rangle$

d)  $\langle 4, 1 \rangle$

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