

Vector Homework Day 2

Evaluate

1) $\vec{u} = \langle 20, -21 \rangle$
Find: $-3\vec{u}$

2) Given: $P = (0, -4)$ $Q = (-1, 9)$
Find: $8\overrightarrow{PQ}$

3) $\vec{u} = \langle 3, 3 \rangle$
 $\vec{v} = \langle 11, 8 \rangle$
Find: $\vec{u} + \vec{v}$

4) Given: $P = (-7, -6)$ $Q = (6, 10)$
 $R = (-3, -9)$ $S = (-3, 7)$
Find: $\overrightarrow{PQ} + \overrightarrow{RS}$

5) $\vec{f} = \langle 12, 2 \rangle$
 $\vec{v} = \langle 2, 4 \rangle$
Find: $4\vec{f} - 6\vec{v}$

6) Given: $T = (-3, 8)$ $X = (3, 10)$
 $Y = (-4, -7)$ $Z = (-8, -10)$
Find: $4\overrightarrow{TX} + \overrightarrow{YZ}$

7) Given: $P = (-10, -8)$ $Q = (-4, -3)$
Find the vector opposite \overrightarrow{PQ}

8) $\vec{a} = \langle 6, -10 \rangle$
 $\vec{g} = \langle -3, 11 \rangle$
Find: $\vec{a} + \vec{g}$

9) Given: $T = (10, -4)$ $X = (0, -1)$
 $Y = (0, -6)$ $Z = (-1, 5)$
Find: $-\vec{TX} - \vec{YZ}$

10) $\vec{u} = \langle 12, 16 \rangle$
Find: $-5\vec{u}$

11) Given: $P = (-4, 3)$ $Q = (6, -9)$
Find: $9\vec{PQ}$

12) $\vec{a} = \langle -3, -12 \rangle$
 $\vec{b} = \langle 4, 9 \rangle$
Find: $-3\vec{a} - 7\vec{b}$

13) Given: $A = (10, 0)$ $B = (3, -1)$
 $C = (-5, 7)$ $D = (-2, 9)$
Find: $-3\vec{AB} + 2\vec{CD}$