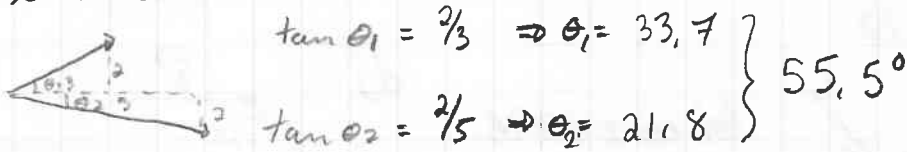


#49 a) Project: $2.92 \cdot \cos 38^\circ = 2.3 \text{ cm}$
 P.S.: $2.92 \cdot 5.5 \cdot \cos 38^\circ = 12.66$

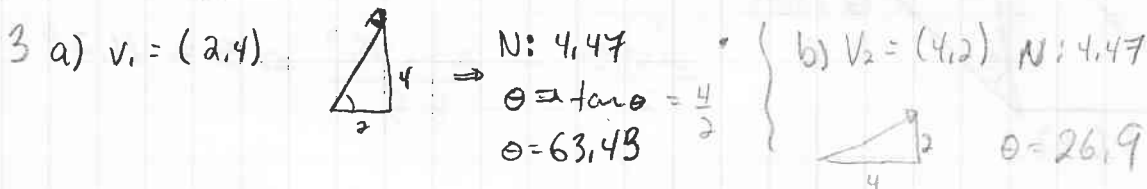
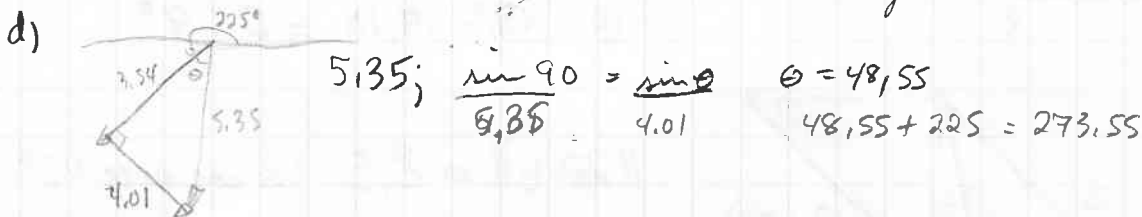
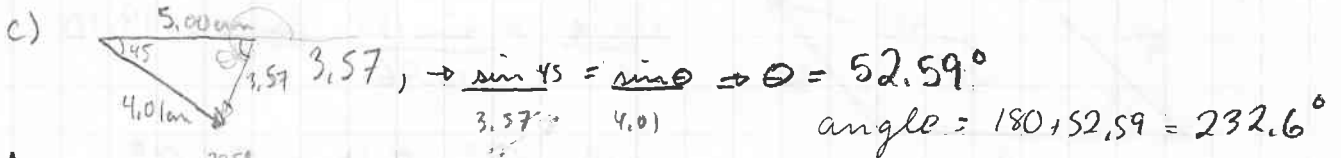
b) Project: $3.7 \cdot \cos 99.9 = -0.64$
 P.S.: $3.7 \cdot 5.8 \cdot \cos 99.9 = -3.69$

#50 a) scalénaire



Capitule 9.212

2a) $12.36, 0^\circ$ b) $0.57, 180^\circ$



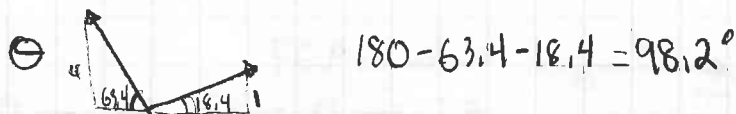
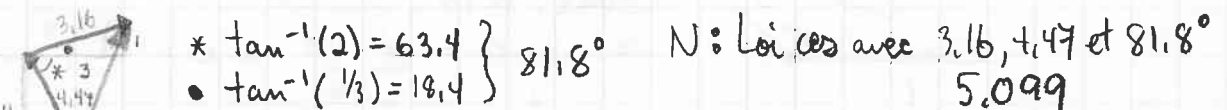
#5 c) $\vec{u} = (-1, 4)$ $\vec{v} = (2, -3)$ et $\vec{w} = (-3, 1)$

a) $\vec{u} + \vec{v} \Rightarrow (1, 1)$ b) $2\vec{u} + 3\vec{w} = (-2, 8) + (-9, 3) = (-11, 11)$

c) $\vec{v} \cdot \vec{w} = -6 + -3 = -9$ d) $(\vec{u} \cdot \vec{v})\vec{w} = (-2 + -12) \cdot (-3, 1) = -14(-3, 1) = (42, -14)$

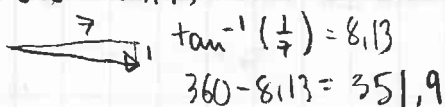
#6 $\vec{a} = (-2, 4)$ $\vec{b} = (3, 1)$

a)



#12 a) $\vec{w} = (-6, -2) + (3, 6) = (-3, 4) = 5^\circ$ #18

b) $\vec{s} = (11, 7)$



$F_1 \Rightarrow \cos 30 = \frac{F_1}{100} \Rightarrow F_1 = 86.6$

$F_2 \Rightarrow \cos 60 = \frac{F_2}{100} \Rightarrow F_2 = 50$

CAPSULE P. 210 (Suite)

$$\#7a) \overrightarrow{PQ} + \overrightarrow{QS} = \overrightarrow{PS}$$

$$b) \overrightarrow{EF} - \overrightarrow{GF} + \overrightarrow{GE} = \overrightarrow{EF} + \overrightarrow{FG} + \overrightarrow{GE} = \vec{0}$$

$$c) \overrightarrow{EF} + 2\overrightarrow{EF} + \overrightarrow{EF} = 4\overrightarrow{EF}$$

$$\#8) 3 = 2 \cdot 4 \cdot \cos \theta \Rightarrow \cos \theta = \frac{3}{8} \Rightarrow \theta = 68^\circ$$

$$\#15) \vec{a} = (2, -3) \text{ et } \vec{b} = (-1, 2) \text{ et}$$

$$\vec{u} = 2\vec{a} + 3\vec{b}$$

$$\vec{u} = (4, -6) + (-3, 6)$$

$$\vec{u} = (1, 0)$$

$$\vec{v} = \vec{a} - 2\vec{b}$$

$$\vec{v} = (2, -3) - (-2, 4)$$

$$\vec{v} = (4, -7) \rightarrow \|\vec{v}\| = \sqrt{4^2 + 7^2} = 8,06$$

$$\vec{u} \cdot \vec{v} = 4 \Rightarrow 4 = 1 \cdot 8,06 \cdot \cos \theta$$

$$\theta = \cos^{-1} \left(\frac{4}{8,06} \right)$$

$$\theta = 60,3^\circ$$

Exercices P. 198 nos 13 - 19 - 21 - 23 - 24 - 27

28 - 29 - 43 - 49
