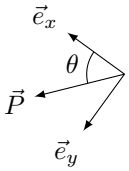
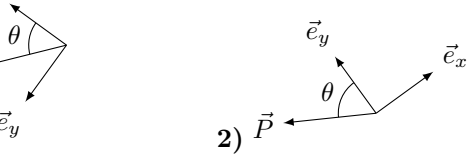
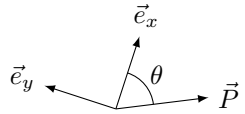
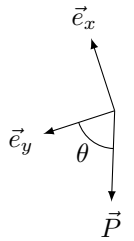
Entraînement technique : projections

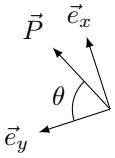
Pour chacun des cas ci-dessous, donner l'expression du vecteur $\vec{P}$ de norme P dans la base $\vec{e}_x, \vec{e}_y$.

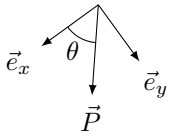
1) 

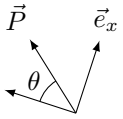
2) 

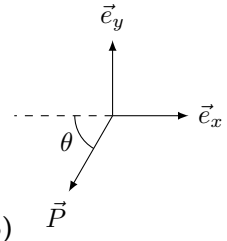
3) 

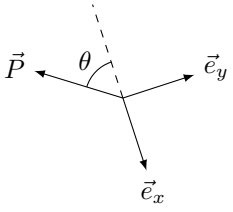
4) 

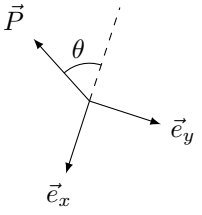
5) 

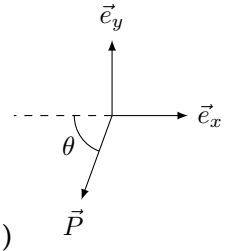
6) 

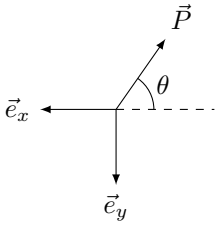
7) 

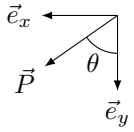
8) 

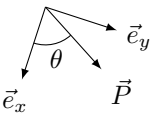
9) 

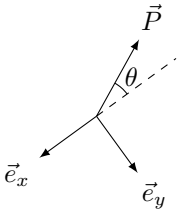
10) 

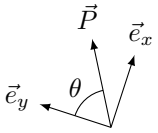
11) 

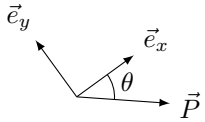
12) 

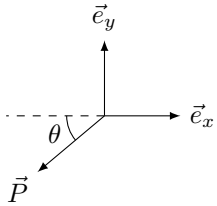
13) 

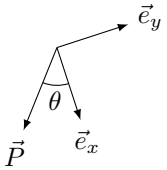
14) 

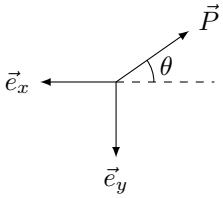
15) 

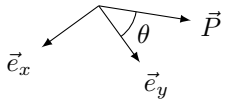
16) 

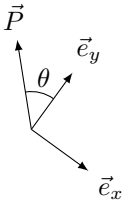
17) 

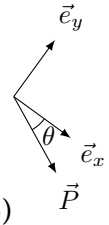
18) 

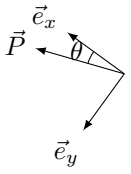
19) 

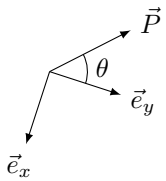
20) 

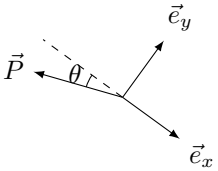
21) 

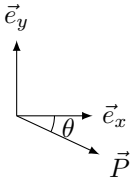
22) 

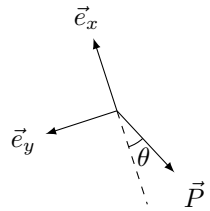
23) 

24) 

25) 

26) 

27) 

28) 

Entraînement technique : projections – Solutions

1) $P(\cos\theta\vec{e}_x + \sin\theta\vec{e}_y)$ **2)** $P(-\cos\theta\vec{e}_x + \sin\theta\vec{e}_y)$ **3)** $P(\cos\theta\vec{e}_x - \sin\theta\vec{e}_y)$ **4)** $P(-\cos\theta\vec{e}_x + \sin\theta\vec{e}_y)$

5) $P(\sin\theta\vec{e}_x + \cos\theta\vec{e}_y)$ **6)** $P(\cos\theta\vec{e}_x + \sin\theta\vec{e}_y)$ **7)** $P(\sin\theta\vec{e}_x + \cos\theta\vec{e}_y)$ **8)** $P(-\cos\theta\vec{e}_x - \sin\theta\vec{e}_y)$

9) $P(-\cos\theta\vec{e}_x - \sin\theta\vec{e}_y)$ **10)** $P(-\cos\theta\vec{e}_x - \sin\theta\vec{e}_y)$ **11)** $P(-\cos\theta\vec{e}_x - \sin\theta\vec{e}_y)$ **12)** $P(-\cos\theta\vec{e}_x - \sin\theta\vec{e}_y)$

13) $P(\sin\theta\vec{e}_x + \cos\theta\vec{e}_y)$ **14)** $P(\cos\theta\vec{e}_x + \sin\theta\vec{e}_y)$ **15)** $P(-\cos\theta\vec{e}_x - \sin\theta\vec{e}_y)$ **16)** $P(\sin\theta\vec{e}_x + \cos\theta\vec{e}_y)$

17) $P(\cos\theta\vec{e}_x - \sin\theta\vec{e}_y)$ **18)** $P(-\cos\theta\vec{e}_x - \sin\theta\vec{e}_y)$ **19)** $P(\cos\theta\vec{e}_x - \sin\theta\vec{e}_y)$ **20)** $P(-\cos\theta\vec{e}_x - \sin\theta\vec{e}_y)$

21) $P(-\cos\theta\vec{e}_x + \sin\theta\vec{e}_y)$ **22)** $P(-\cos\theta\vec{e}_x + \sin\theta\vec{e}_y)$ **23)** $P(\cos\theta\vec{e}_x - \sin\theta\vec{e}_y)$ **24)** $P(\cos\theta\vec{e}_x + \sin\theta\vec{e}_y)$

25) $P(-\cos\theta\vec{e}_x + \sin\theta\vec{e}_y)$ **26)** $P(-\cos\theta\vec{e}_x - \sin\theta\vec{e}_y)$ **27)** $P(\cos\theta\vec{e}_x - \sin\theta\vec{e}_y)$ **28)** $P(-\cos\theta\vec{e}_x - \sin\theta\vec{e}_y)$