Exercice 1 2027 FE 06b

Calculer les nombres suivants :

1) $a = \arcsin(0)$ $b = \arcsin(1)$
$c = \arcsin(\pi/2)$ $d = \arcsin(-1)$
$e = \arcsin(-1/2)$ $f = \arcsin\dfrac{\sqrt{3}}{2}$
$g = \arcsin(\sin(\pi/4))$ $h = \arcsin(\sin(3\pi/4))$
$i = \arcsin(\sin(-\pi/5))$ $j = \arcsin(\sin(7\pi/13))$
$k = \arcsin(\sin(8\pi/7))$ $k' = \arcsin(\sin(-67\pi/7))$
$\ell = \arcsin(\cos(\pi/5))$ $m = \cos(\arcsin(1/3))$

2) $a = \arccos(0)$ $b = \arccos(-\sqrt{2}/2)$
$c = \arccos(\cos(\pi/5))$ $d = \arccos(\cos(-\pi/5))$
$e = \arccos(\cos(7\pi/5))$ $f = \arccos(\cos(-9\pi/5)$
$g = \arccos(\sin(\pi/7))$ $h = \sin(\arccos(3/5))$
$i = \tan(\arccos(-1/3))$

3) $a = \arctan(-1)$ $b = \arctan(\sqrt{3})$
$c = \arctan(\tan(\pi/5))$ $d = \arctan(\tan(3\pi/5))$
$e = \arctan(\tan(-4\pi/5))$ $f = \sin(= \arctan(2))$
$g = \tan(\arccos(1/5))$ $h = \tan(\arcsin(2/3))$

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