

ex. 5.4 - memo

1a) $\theta = 30^\circ$

b) $\theta = 22,8^\circ$

c) $\theta = 70,8^\circ$

d) $\theta = 47^\circ$ {46,95 rounded}

e) $2 \tan \theta = 1$

$$\tan \theta = \frac{1}{2}$$

$$\theta = 26,6^\circ$$

f) $3 \cos \theta = 0,5$

$$\cos \theta = \frac{1}{6}$$

$$\theta = 80,4^\circ$$

g) $\left(\frac{\sin \theta}{3}\right)^3 = (0,13) \quad \times 3$

$$\sin \theta = 0,39$$

$$\theta = 23^\circ$$

h) $\frac{3 \cos \theta}{2} - 1 = 0$

$$\frac{2/3 \cos \theta}{1} = (1) \frac{2}{1}$$

$$3 \cos \theta = 2$$

$$\cos \theta = \frac{2}{3}$$

$$\theta = 48,2^\circ$$

$$1) \quad 4 \tan (\theta - 30^\circ) = 1$$

$$\tan (\theta - 30^\circ) = \frac{1}{4}$$

$$\therefore \theta - 30^\circ = 14,0362 \dots$$

$$\theta = 44,0^\circ$$

$$j) \quad \frac{2 \sin (\theta - 10^\circ)}{3} = 0,102$$

$$2 \sin (\theta - 10^\circ) = 0,306$$

$$\sin (\theta - 10^\circ) = 0,153$$

$$\therefore \theta - 10^\circ = 8,8008 \dots$$

$$\theta = 18,8^\circ$$

$$k) \quad 4 \cos 2\theta = 3,5$$

$$\cos 2\theta = 0,875$$

$$\therefore 2\theta = 28,9550 \dots$$

$$\theta = 14,5^\circ$$

$$l) \quad \frac{\tan 2\theta}{2} = 5,102$$

$$\tan 2\theta = 10,204$$

$$\therefore 2\theta = 84,4028 \dots$$

$$\theta = 42,2^\circ$$

$$m) \frac{\sin(3\theta - 35^\circ)}{3} = 0,17$$

$$\sin(3\theta - 35^\circ) = 0,51$$

$$\therefore 3\theta - 35^\circ = 30,6638 \dots$$

$$3\theta = 65,6638 \dots$$

$$\theta = 21,9^\circ$$

$$n) 2 \tan(5\theta + 20^\circ) = 24,9$$

$$\tan(5\theta + 20^\circ) = 12,45^\circ$$

$$\therefore 5\theta + 20^\circ = 85,4077 \dots$$

$$5\theta = 65,4077 \dots$$

$$\theta = 13,1^\circ$$

$$o) \cos \theta = \sin 20^\circ$$

$$\theta = 70^\circ$$

$$p) \sin \theta = \tan 40^\circ$$

$$\theta = 57,0^\circ$$