Løsninger til oppgaver til uke 36 (ved Arne Hole)

Oppgave 1:

(a) $x = \log(4/5)$

(b) $x = \log 4/log5$

(c) $x = \frac{\log 2 - \log 5}{3 \log 7}$

(d) $x = 995/2$

Oppgave 2:

(a) $\cos(\pi/4) = \sin(\pi/4) = 1/\sqrt{2}$

(b) $\cos(\pi/3) = 1/2$, og $\sin(\pi/3) = \sqrt{3}/2$

(c) $\cos(5\pi/4) = -1/\sqrt{2} = \sin(5\pi/4)$

Oppgave 3:

(a) $\pi/4$

(b) $\pi/6$

(c) $2\pi/3$

(d) $-\pi/6$

Oppgave 4:

(a) $r = 2$, $\theta = 0$

(b) $r = 4$, $\theta = \pi/2$

(c) $r = 1$, $\theta = 3\pi/2$

(d) $r = \sqrt{2}$, $\theta = \pi/4$

(e) $r = 2$, $\theta = \pi/3$

(f) $r = 5$, $\theta = \arccos(-3/5) \approx 2.2$

Oppgave 5:

(a) $(-1, 0)$

(b) $(-1, -1)$

Oppgave 6: