ROVNICE – úkol č. 1 – řešení

① $7a-3=5a+7$

$7a-5a=7+3$

$2a=10$

$a=5$

zk.: $L=7a-3$ $P=5a+7$

$L=7\cdot5-3$ $P=5\cdot5+7$

$L=35-3$ $P=25+7$

$L=32$ $P=32$

$L=P$

② $5x+4\cdot(x-6)=3\cdot(x-2)+24$

$5x+4x-24=3x-6+24$

$9x-24=3x+18$

$9x-3x=24+18$

$6x=42$

$x=7$

zk.:

$L=5x+4\cdot(x-6)$ $P=3\cdot(x-2)+24$

$L=5\cdot7+4\cdot(7-6)$ $P=3\cdot(7-2)+24$

$L=35+4$ $P=15+24$

$L=39$ $P=39$

$L=P$

③ $6(k+1)-2\cdot(k-2)=5k-8-3k$

$6k+6-2k+4=5k-8-3k$

$4k+10=2k-8$

$4k-2k=-8-10$

$2k=-18$

$k=-9$

zk.:

$L=6(k+1)-2(k-2)$

$L=6\cdot(-9+1)-2\cdot(-9-2)$

$L=6\cdot(-8)-2\cdot(-11)$

$L=-48+22$

$L=-26$

$P=5k-8-3k$

$P=5\cdot(-9)-8-3\cdot(-9)$

$P=-45-8+27$

$P=-53+27$

$P=-26$

$L=P$

④ $4m+2\cdot(m-3)=5\cdot(m-2)$

$4m+2m-6=5m-10$

$6m-6=5m-10$

$6m-5m=-10+6$

$m=-4$

zk.: $L=4m+2\cdot(m-3)$ $P=5\cdot(m-2)$

$L=4\cdot(-4)+2\cdot(-4-3)$ $P=5\cdot(-4-2)$

$L=-16+2\cdot(-7)$ $P=5\cdot(-6)$

$L=-16-14$ $P=-30$

$L=-30$

$L=P$