Systems of Equations Homework

1. How many solutions does the system have: $\left\{\begin{array}{c}y=4 x+2 \\ 2 y=8 x+10\end{array}\right.$
2. What is the solution to the system: $\left\{\begin{array}{c}3 x+4 y=28 \\ x=2 y+6\end{array}\right.$
3. Given the system: $\left\{\begin{array}{c}3 x-2 y=12 \\ 4 x-y=11\end{array}\right.$ what is the value of $\mathbf{y}$ in the solution?
4. Given: $\left\{\begin{array}{c}2 x+y=2 \\ 6 x-3 y=42\end{array}\right.$ what is $\mathbf{x}+\mathbf{y}$ ?
5. Solve by graphing:
$y=-2 x+1$
a) $y=-2 x-3$
$y=2 x+6$
b) $4 x-2 y=8$
6. Solve using substitution:
$y=4 x-8$
$t=0.2 s+10$
a) $y=2 x+10$
b) $4 s+5 t=35$
7. Solve using elimination:
$2 x+5 y=17$
$7 x+2 y=10$
а) $6 x-5 y=-9$
b) $-7 x+y=-16$
