$\qquad$

1. Are the following programs equivalent?
$\mathrm{x}=\mathrm{a}+\mathrm{b}$;
$y=c+x ;$
$\mathrm{x}=\mathrm{a}+\mathrm{b}$;
$z=a+b+c ;$
$y=c+x ;$
z = y ;
2. Are the following programs equivalent?
```
x = a + b;
x = a + b;
y = x + c;
z = a + b + c;
y = x + c;
z = y;
```

