

1. Given: $15y+7=12-20y$

Prove: $y = 1/7$

Statement	Reason
1. $15y+7=12-20y$	1
2. $35y+7=12$	2
3. $35y=5$	3
4. $y = 1/7$	4

2. Given: $3x + 12 = 8x - 18$

Prove: $x = 6$

Statements	Reasons
1. $3x + 12 = 8x - 18$	1
2. $12 = 5x - 18$	2
3. $30 = 5x$	3
4. $6=x$	4
5. $x=6$	5

3. Given: $3k + 5 = 17$

Prove: $k = 4$

Statements	Reasons

4. Given: $-6a-5= -95$

Prove: $a = 15$

Statements	Reasons

5. Given: $\frac{7d + 3}{4} = 6$

4

Prove: $d = 3$

Statements	Reasons

6. Given: $3x - 4 = \frac{1}{2}x - 6$

Prove: $x = -\frac{4}{5}$

Statements	Reasons