## Øving 1

søndag 29. august 2021 08:

1.1

14

- You miss the final exam and therefore you do not pass the course
- You have the flu and you miss the final exam or you dont miss the final exam and pass the course

16.

- (a) p1 79
- @ (png) >r

1.3

12

- $(b) ((p \rightarrow q) \land (q \rightarrow r)) \rightarrow (p \rightarrow r)$

(c)  $(pn(p \rightarrow q)) \rightarrow q$   $p \neq p \rightarrow q pn(p \rightarrow q) (pn(p \rightarrow q)) \rightarrow q$   $0 \mid 0 \mid 0 \mid 0$   $1 \mid 0 \mid 0 \mid 0$   $1 \mid 1 \mid 1 \mid 1$ (d)  $((pvq)n(p \rightarrow r)n(q \rightarrow r)) \rightarrow r$ 

1.4

24

(d) 
$$\frac{\forall x}{\forall x} (Q(x)), Q(x) = x \text{ can solve } ...$$
 $\frac{\forall y}{\exists x} (Q(x)), y = \text{all people, } x = \text{students}$ 

(a)  $\exists x (^{7}R(x)), R(x) = x \text{ want to be rich.}$ 
 $\frac{\forall y}{\exists x} (^{7}P(x)),$ 

6) 7(Yx 3y (P(xx)) 1 32 (P(xxx))) =