



Circled exercises were chosen randomly using the “Integer Set Generator” feature on the website random.org . Nobody (teachers or students) knew which exercises would be marked until after the deadline had passed.

P	Q	R	$Q \vee R$	$(P \wedge (Q \vee R))$	$P \wedge Q$	$P \wedge R$	$(P \wedge Q) \vee (P \wedge R)$
T	T	T	T	T	T	T	T
T	T	F	T	T	T	F	T
T	F	T	T	T	F	T	T
T	F	F	F	F	F	F	F
F	T	T	T	F	F	F	F
F	T	F	T	F	F	F	F
F	F	T	T	F	F	F	F
F	F	F	F	F	F	F	F

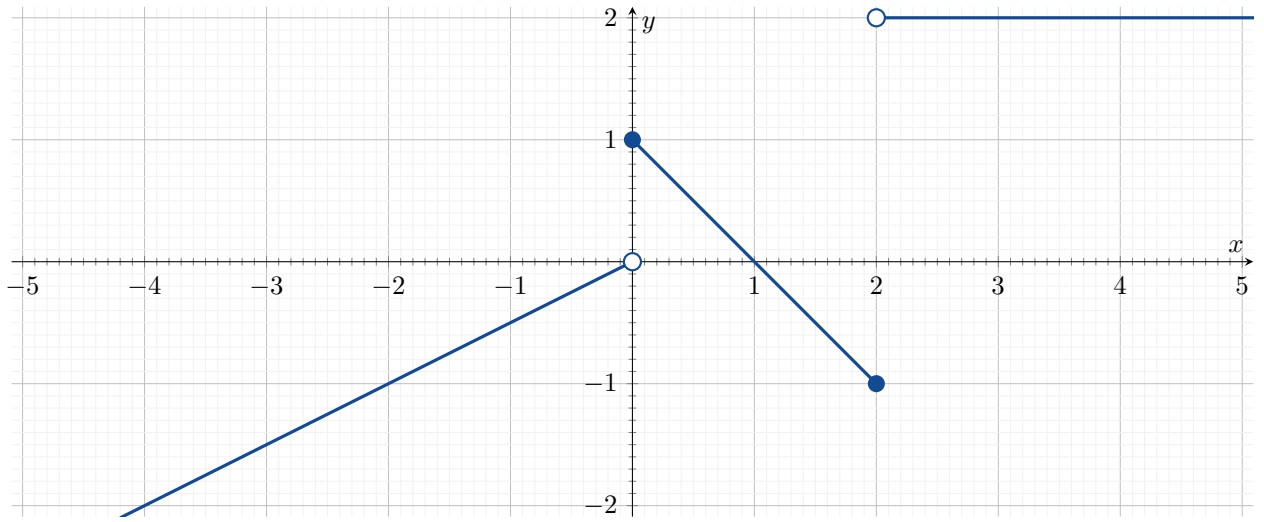
1.

2. (a) $\|AB\| = \sqrt{(-3 - 1)^2 + (4 - 1)^2} = \sqrt{16 + 9} = 5,$
(b) $\|BC\| = \sqrt{(-3 - -3)^2 + (0 - 4)^2} = \sqrt{16} = 4,$
(c) $\|CA\| = \sqrt{(1 - -3)^2 + (1 - 0)^2} = \sqrt{17}.$

3.

- (a) even
(b) even
(c) even
(d) odd
(e) odd
(f) neither

4.



5.

