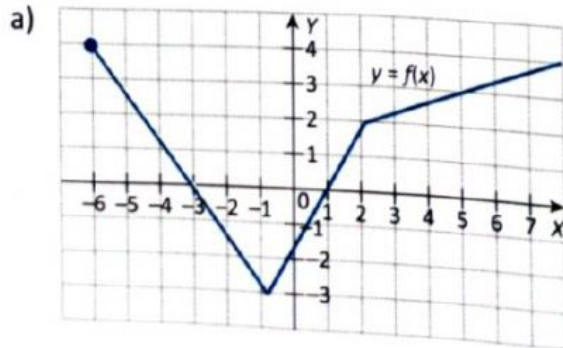


The zero set of a function - exercises

piątek, 9 kwietnia 2021 18:51

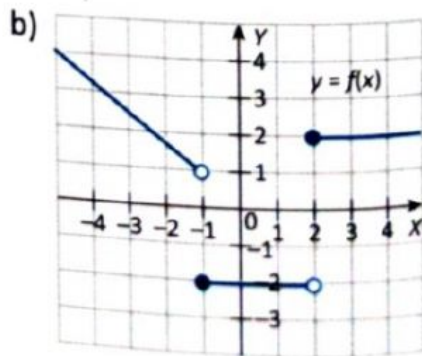
EX. 1 Find the zero set of a function and indicate the set of arguments for which f takes positive values or negative values:



$$Z_f =$$

$$f(x) > 0 \text{ for } x \in$$

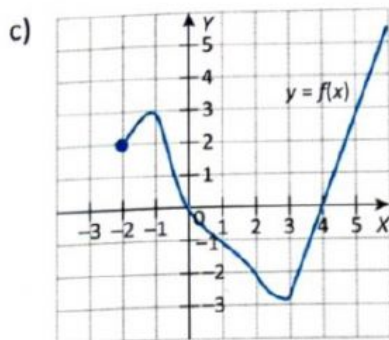
$$f(x) < 0 \text{ for } x \in$$



$$f(x) = 0 \text{ for } x \in \underbrace{\hspace{2cm}}_{Z_f}$$

$$f(x) > 0 \text{ for } x \in$$

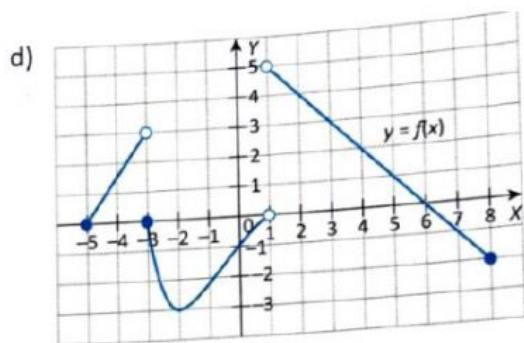
$$f(x) < 0 \text{ for } x \in$$



$$f(x) = 0 \text{ for } x \in \overset{\text{the zero set}}{\downarrow} Z_f =$$

$$f(x) > 0 \text{ for } x \in$$

$$f(x) < 0 \text{ for } x \in$$



$$Z_f =$$

$$f(x) > 0 \text{ for } x \in$$

$$f(x) < 0 \text{ for } x \in$$

Ex. 2 Read the zero set of f :

a)

x	-3	-2	0	3	5	8
$f(x)$	4	0	-1	7	0	2

$$Z_f = \{ \quad \quad \quad \}$$

b)

x	-5	-2	0	1	5	6
$f(x)$	0	0	0	7	0	0

$$Z_f = \{ \quad \quad \quad \}$$