Answer on Question # 49639 – Math – Algebra

yes so my question is can you say me what went wrong with explanation with each step and give me correct answer.

a=b
a+a=a+b
2a=a+b
2a-2b=a+b-2b
2(a-b)=a+b-2b
2(a-b)=(a-b)
2=1

Solution

a=b

a+a=a+b	correct
2a=a+b	correct
2a-2b=a+b-2b	correct
2(a-b)=a+b-2b	correct
2(a-b)=(a-b)	correct

$a=b \Rightarrow a-b=0$

You cannot divide by zero. Therefore the statement $\frac{2(a-b)}{a-b}=\frac{(a-b)}{a-b} \Rightarrow 2=1$ is wrong.