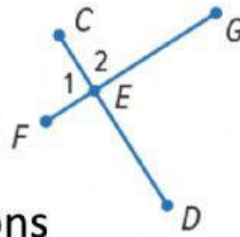


Name:

Class:



Refer to the figure. Complete the two-column proof to show that if $EG = 3x - 1$, $ED = 2x + 4$, and $EG = ED$, then $x = 5$.



Substitution Property of Equality

Substitution

Given

Addition Property of Equality

Statements

Reasons

$EG = 3x - 1$, $ED = 2x + 4$, $EG = ED$

$3x - 1 = 2x + 4$

$x - 1 = 4$

$x = 5$

