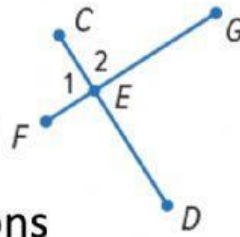


Name:

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

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

$$3x - 1 = 2x + 4$$

$$x - 1 = 4$$

$$x = 5$$

