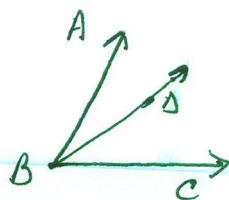


∠ bisector

Ray \vec{BD} bisects $\angle ABC$



$$m\angle ABD = 6x - 8$$

$$m\angle DBC = 3x + 16$$

$$x = 8$$

$$6x - 8 = 3x + 16$$

$$3x = 24$$

$$\boxed{x = 8}$$

$$m\angle ABD = 7x + 2 \quad 37$$

$$m\angle ABC = 12x + 14 \quad 74$$

$$x = 5$$

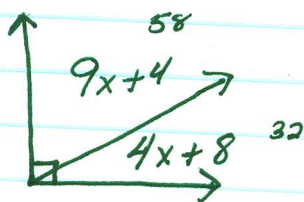
$$2(7x + 2) = 12x + 14$$

$$14x + 4 = 12x + 14$$

$$2x = 10$$

$$x = 5$$

Comp

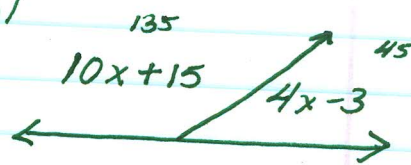


$$x = 6$$

$$13x + 12 = 90$$

$$13x = 78$$

Suppl



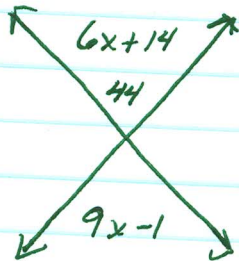
$$14x + 12 = 180$$

$$14x = 168$$

$$x = 12$$

Vertical

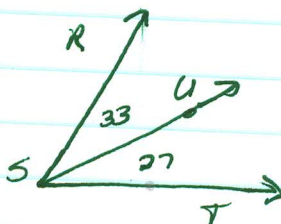
$x = 5$



$$9x - 1 = 6x + 14$$

$$3x = 15$$

L add



$$x = 7$$

$$m\angle RSU = 3x + 12$$

$$m\angle UST = 5x - 8$$

$$m\angle RST = 9x - 3$$

$$8x + 4 = 9x - 3$$