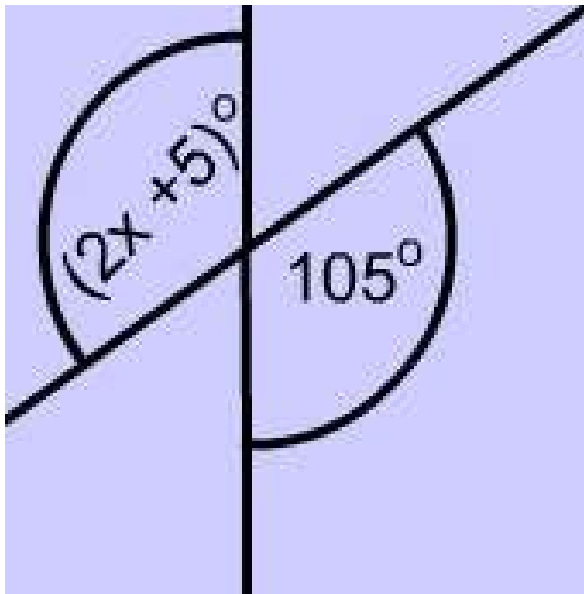
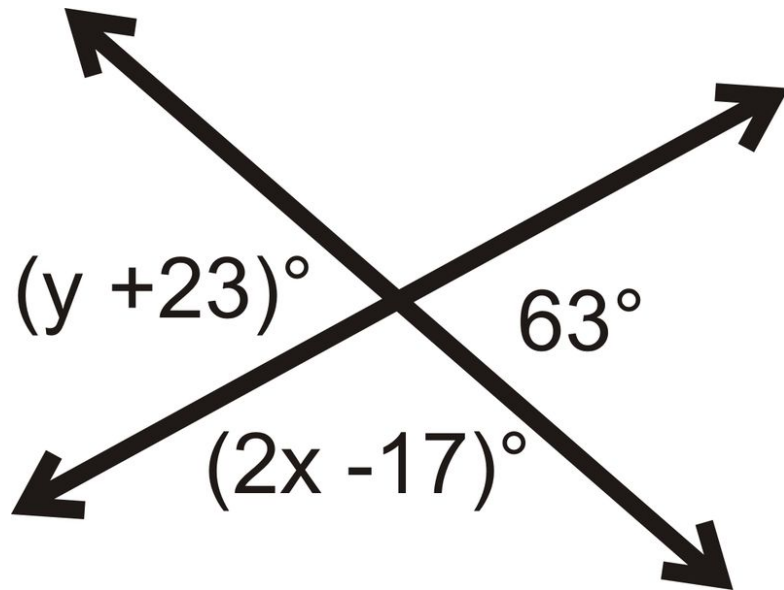


What do we know? They are Vertical Angles
What must x be? $x - 2 = 133$
 $x = 135$



What do we know? Vertical angle
How can we solve for x ? $2x + 5 = 105$
 $2x = 100$
 $x = 50$



What can we solve for? Vertical Angle

$$Y + 23 = 63$$

$$Y = 40$$

What do we know? Why? Supplementary angles

$$180 - 63 = 117$$

$$2X - 17 = 117$$

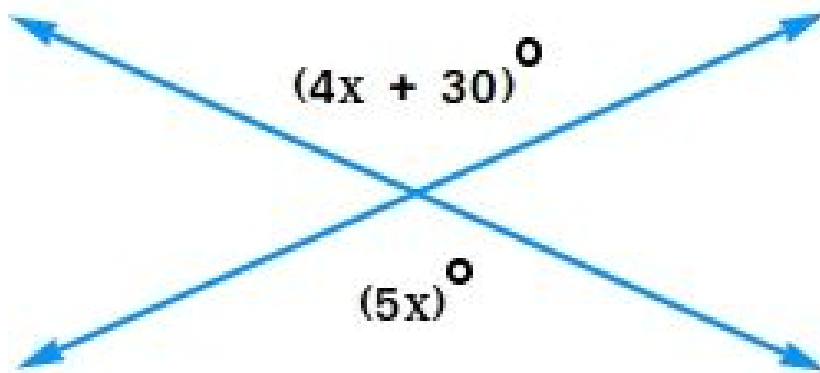
$$2X = 134$$

Divide 2 on both sides

$$X = 67$$

Vertical angles theorem

$$(4x + 30)^\circ = (5x)^\circ$$



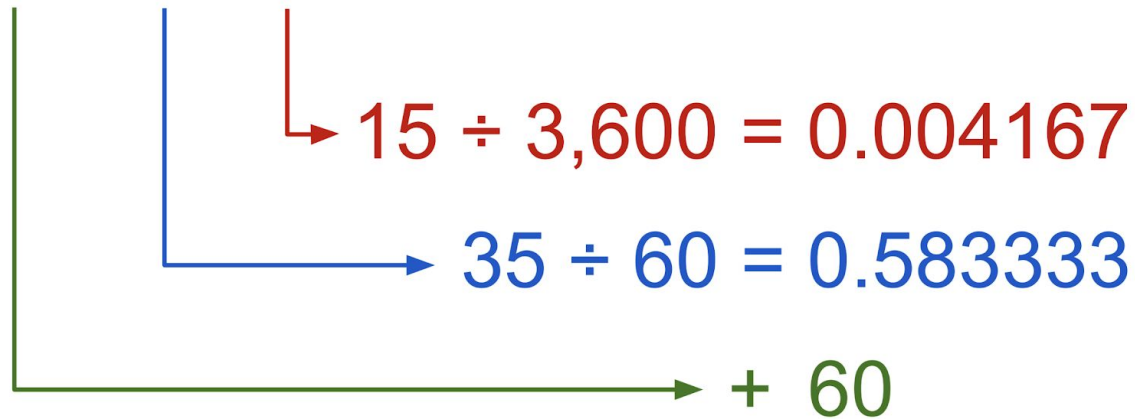
How can we solve this? Vertical angle theorem

What must x be? $x = 30$ $4x + 30 = 5x$

What is the angle? $5 * 30 = 150$

Degrees Minutes Seconds

60° 35' 15"



60.5875

This would be the same as hour to minutes to seconds.

What if I have to add these two?

Hours

1	1	
40 degrees	17 minutes	25 seconds
25 degrees	45 minutes	38 seconds

66 degrees	3min	3 Seconds
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What if I have to subtract these two?

Hours

	76 min	
39 degrees	60 +16 min	60 +25 =85
40 degrees	17 minutes	25 seconds
25 degrees	45 minutes	38 seconds
<hr/>		
14 Degrees	31 min	47 seconds