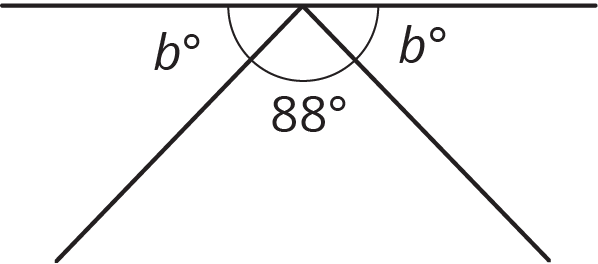
## Unit 7 Lesson 4 Cumulative Practice Problems

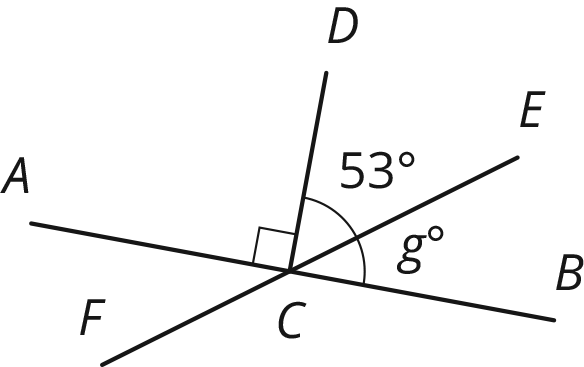
1. is a point on line segment . is a line segment. Select **all** the equations that represent the relationship between the measures of the angles in the figure.

* 

1. Which equation represents the relationship between the angles in the figure?

* 

1. Segments , , and intersect at point , and angle is a right angle. Find the value of .

* 

1. Select **all** the expressions that are the result of decreasing by 80%.

* (From Unit 6, Lesson 12.)

1. Andre is solving the equation . He says, “I can subtract from each side to get and then divide by 4 to get .” Kiran says, “I think you made a mistake.”
   1. How can Kiran know for sure that Andre’s solution is incorrect?
   2. Describe Andre’s error and explain how to correct his work.

* (From Unit 6, Lesson 8.)

1. Solve each equation.

* (From Unit 6, Lesson 7.)

1. A train travels at a constant speed for a long distance. Write the two constants of proportionality for the relationship between distance traveled and elapsed time. Explain what each of them means.

|  |  |
| --- | --- |
| * time elapsed (hr) | * distance (mi) |
| * 1.2 | * 54 |
| * 3 | * 135 |
| * 4 | * 180 |

* (From Unit 2, Lesson 5.)



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