

- 1 In the accompanying diagram, line a intersects line b .

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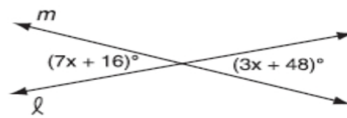


What is the value of x ?

- (1) -10 (3) 10
(2) 5 (4) 90

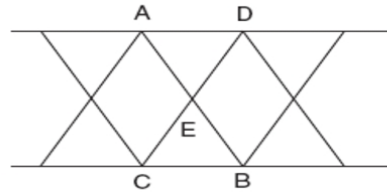
- 2 The accompanying diagram shows intersecting lines ℓ and m . Solve for the value of x ?

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- 3 The support beams on a bridge intersect in the pattern shown in the accompanying diagram. If \overline{AB} and \overline{CD} intersect at point E , $m\angle AED = 3x + 30$, and $m\angle CEB = 7x - 10$, find the value of x .

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- 4 In the accompanying diagram, \overline{AB} and \overline{CD} intersect at E . If $m\angle AEC = 4x - 40$ and $m\angle BED = x + 50$, find the number of degrees in $\angle AEC$.

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