Lines & Angles

Worksheet 1
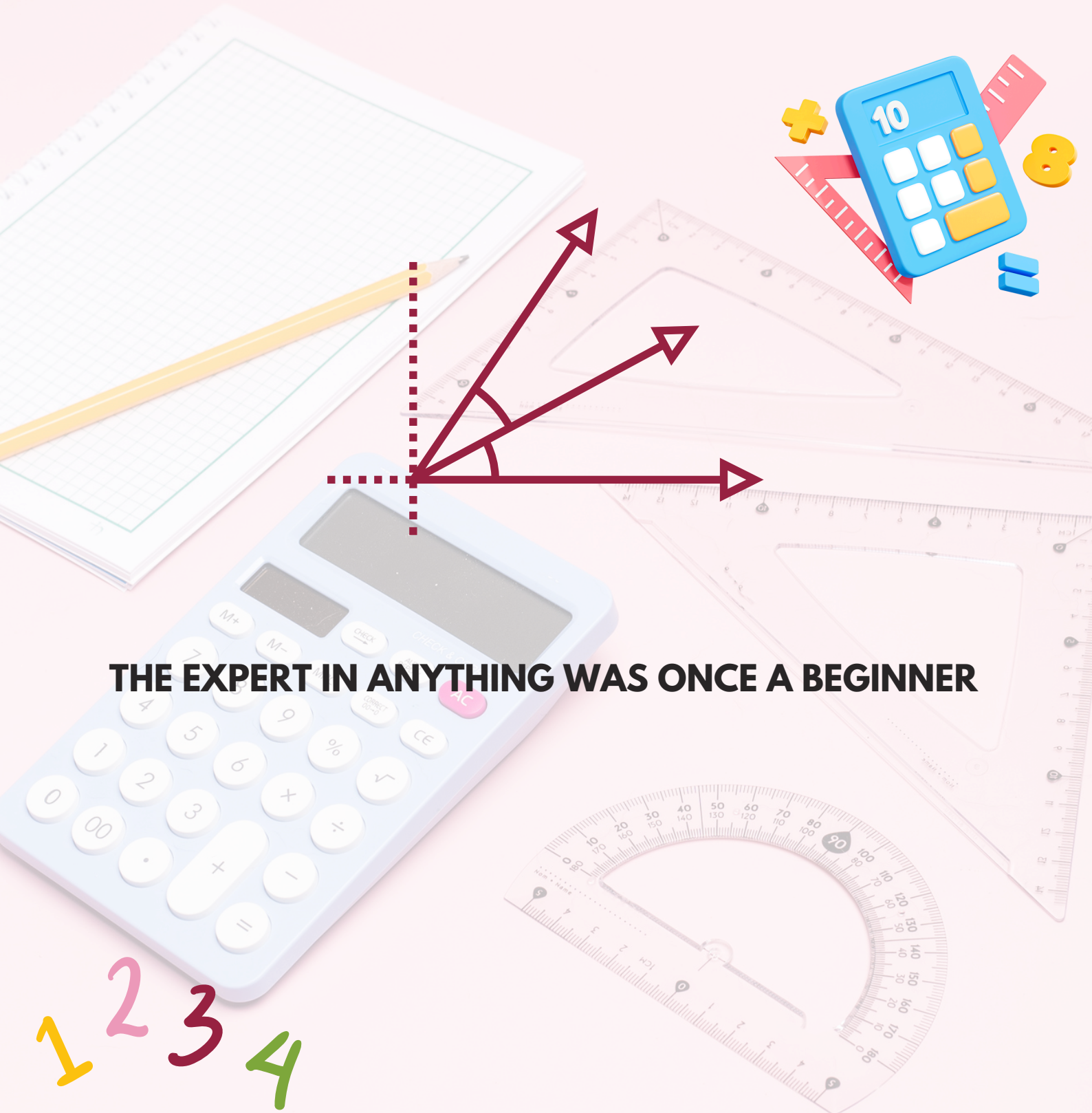
1. In the given figure, ABCD is a rectangle. BD = BE, ∠ BED = 40° and ∠EDA = 260°. Find ∠ CDB.

A. 25° B. 30° C. 40° D. 45°

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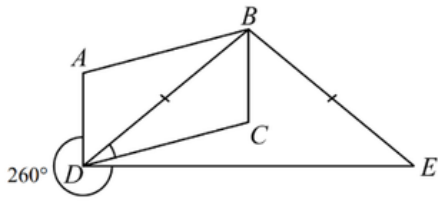
2. In the given figure, AB ||CD || EF. CE is joined and produced to G. If ∠ BAC = 130°, ∠ ACE = 140°, then find ∠DCE and ∠FEG respectively.

A. $50^o, 130^o$ B. $90^o, 90^o$ C. $140^o, 40^o$ D. $45^o, 135^o$

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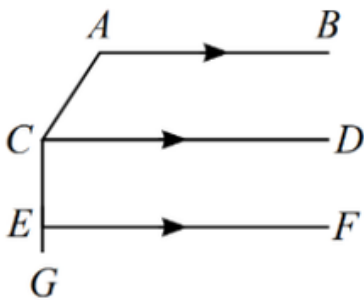
3. In the figure below, two straight lines PQ and RS intersect each other at O. If ∠ POT = 75°, find the values of a, b and c respectively.
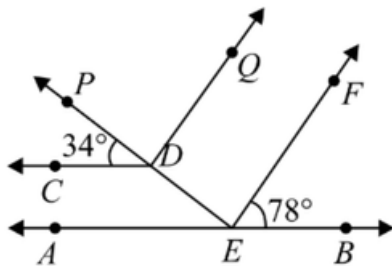

A. $21^o, 84^o, 48^o$ B. $48^o, 84^o, 21^o$ C. $84^o, 21^o, 48^o$ D. $57^o, 21^o, 48^o$
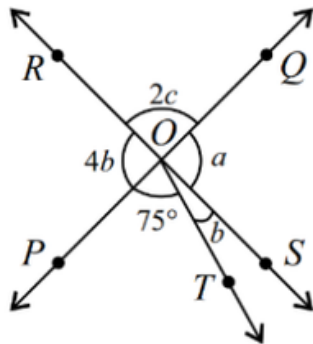
4. In fig., two straight lines AB and CD intersect each other at O. If $\angle$ COE = 70°, find the values of a, b and c.
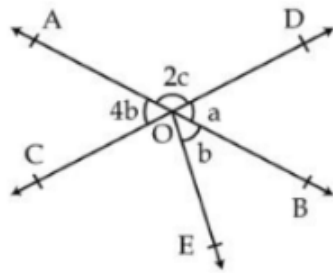
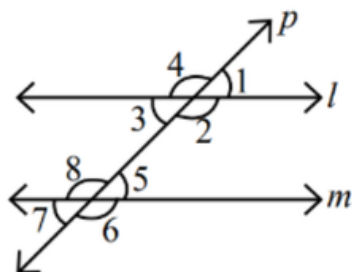5. In the given figure AB || CD and EF || DQ. Determine $\angle$PDQ, $\angle$AED and $\angle$DEF respectively.

A. $34^o, 68^o, 68^o$ B. $68^o, 34^o, 68^o$ C. $68^o, 68^o, 68^o$ D. $34^o, 34^o, 68^o$

6. If l||m and p is the transversal, then select the CORRECT match.

Column-I	Column-II
A. $\angle$1, $\angle$4, $\angle$6 & $\angle$7	Interior Angles
B. $\angle$2, $\angle$3, $\angle$5 & $\angle$8	Exterior Angles
C. $\angle$1, & $\angle$5, $\angle$2 & $\angle$6 $\angle$3, & $\angle$7, $\angle$4 & $\angle$8	Corresponding Angles
D. $\angle$2 & $\angle$8, $\angle$3 & $\angle$5 $\angle$1 & $\angle$7, $\angle$4 & $\angle$6	Alternate Interior Angles

7. In the given figure, AB || CD and PQ, QR intersects AB and CD both at E, F and G, H respectively. Find the value of x.
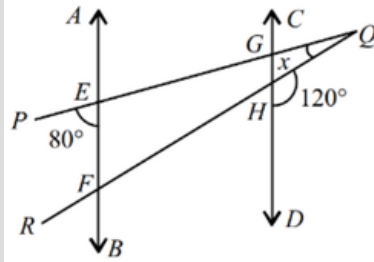
A. 40° B. 20° C. 100° D. None of these

8. In the given figure, if AB || CD, then the value of x is _____.

A. 25° B. 30° C. 45° D. 50°
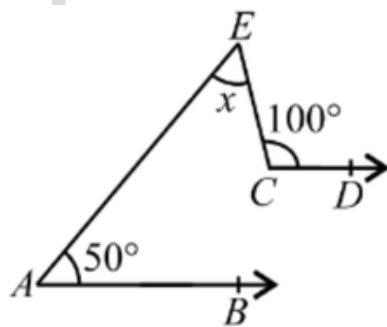
9. In the given figure, if $I_1 || I_2$ and $I_3 || I_4$, what is 'y' in terms of 'x'?
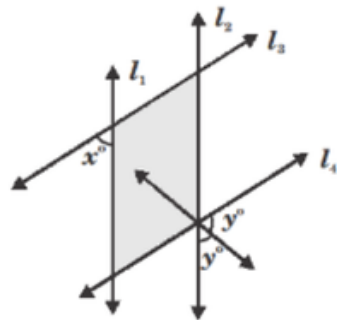
A. $90^o + x$ B. $90^o + 2x$ C. $90^o - \dfrac{x}{2}$ D. $90^o - 2x$

10. In the following figure, $\angle PQR = 60^o$, $\angle PQR$ is bisected and the resultant angles are bisected again. Find $\angle TQS + \angle SQU + \angle PQS$.

A. 20°

B. 15°

C. 60°

D. 18°
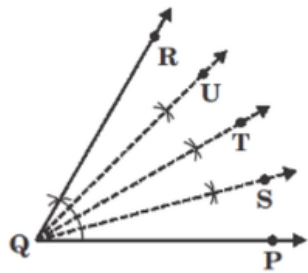
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Answer Key

1. B
2. B
3. C
4. A
5. B
6. C
7. B
8. D
9. C
10. C