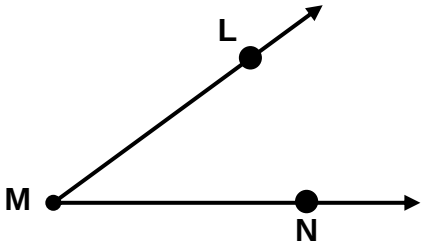
Independent Practice: **ANGLES**

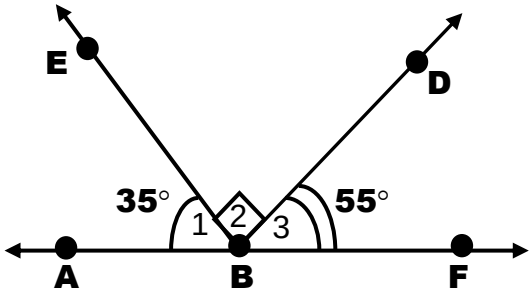
NAME: _____ DATE: _____ PERIOD: _____

For 1- 3 refer to the figure on the right to name each of the following:



1. The angle: _____
2. The sides of the angle: _____
3. The vertex of the angle: _____

For #4 – 10, refer to the figure to the right to name or classify angles as indicated.



4. Name ∠1: _____
5. Name ∠2: _____
6. Name ∠3: _____
7. Classify ∠2: _____
8. Classify ∠3: _____
9. Classify ∠ABD: _____
10. Classify ∠ABF: _____

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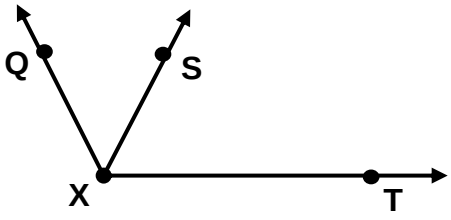
*For #11- 13 use the Angle Addition Postulate to set up equations and solve **x**.*

11. **m∠SXT** = (4x + 1)°, **m∠QXS** = (2x – 2)° and **m∠QXT** = 125°.

    Find the value of ***x*** and **m∠QXS**.

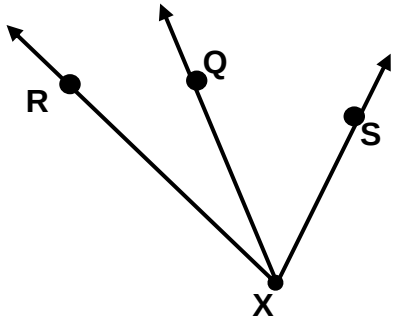


x = _____

m∠QXS = _____

12. **m∠RXQ** = (x + 7)°, **m∠QXS** = (7x + 3)° and **m∠RXS** = (11x – 8)°.

    Find the value of ***x*** and **m∠RXS**.

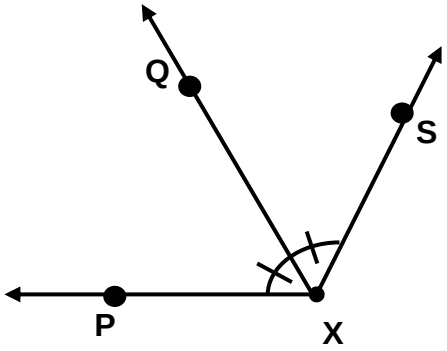


x = _____

m∠RXS = _____

13. If **m∠PXQ** = (6x - 2)° and **m∠PXS** = (7x + 6)°,

    find the value of **x** and **m∠QXS**.



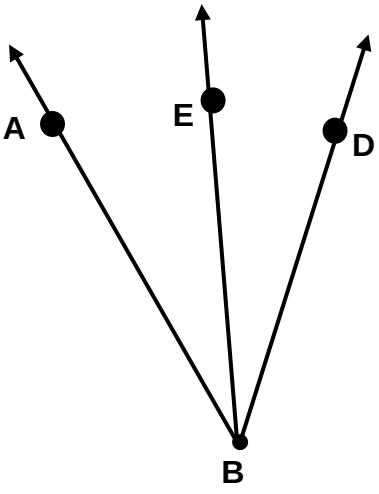
x = _____

m∠QXS = _____

Given that $\overrightarrow{BE}$ *bisects ∠**ABD** below, find each of the following.*

14. If **m∠ABD** = (22n – 11)° and **m∠ABE** = (12n – 8)°,

    find the value of n and **m∠EBD**.



n = _____

m∠EBD = _____