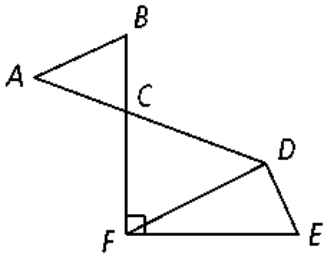
Name: _____ Period: _____

Unit 1 Quiz 2: Angle Relationships

Use the diagram to the right for questions 1-4.



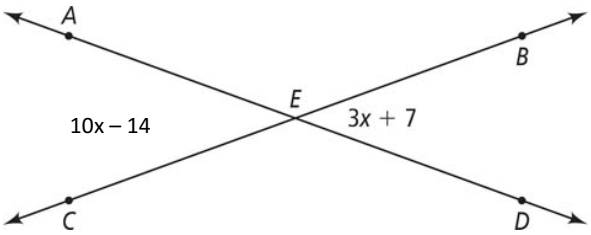
1. Identify a pair of vertical angles.

2. Identify a pair of complementary angles.

3. Identify a pair of supplementary angles.

4. Identify a pair of adjacent angles.

Use the diagram on the right for questions 10-12.

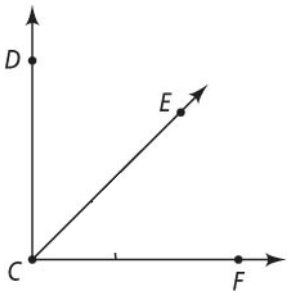


5. Find x.

6. Find m∠AEC.

7. Find m∠CED.

Use the diagram on the right for questions 14 and 15.



8. If DCF is a right angle, m∠DCE = 3x + 12 and m∠FCE= 4x +1, find the value of x.

9. Are DCE and ECF vertical, complementary, or supplementary angles?

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Match the property to the appropriate statement.

10. Given: $m\angle AOX = 2m\angle XOB$

    $2m\angle XOB = 140$

    Conclusion: $m\angle AOX = 140$

11. Given: $7x - 2 = 12$

    Conclusion: $7x = 14$

12. Given: $5(y - x) = 20$

    Conclusion: $5y - 5x = 20$

13. Given: $m\angle 1 + m\angle 2 = 90$

    Conclusion: $m\angle 1 = 90 - m\angle 2$

14. $m\angle 1 = m\angle 1$

15. If $m\angle RQS = m\angle TEF$

    then $m\angle TEF = m\angle RQS$

a) Reflexive Property of Equality

b) Subtraction Property of Equality

c) Symmetric Property of Equality

d) Addition Property of Equality

e) Transitive Property of Equality

f) Distributive Property

Draw an acute angle in the space below. Construct its bisector.

Construct the perpendicular bisector of AF.