$\qquad$ Hr $\qquad$

Match the given angles with their relationship:


1) $\angle D E G$ and $\angle A B E$ are ._. -.
A. Alternate Interior
2) $\angle F E B$ and $\angle E B C$ are - .
B. Corresponding
3) $\angle F E B$ and $\angle A B E$ are
C. Consecutive Interior
4) $\angle D E B$ and $\angle G E F$ are .
D. Vertical Angles

Find the measure of each angle indicated.
5)

6)

7)

8)


Solve for $\boldsymbol{x}$.
9)

10)


Find the measure of the indicated angle that makes lines $u$ and $v$ parallel.
11)

12)

13) For each statement, determine if $\boldsymbol{m} \| \boldsymbol{n}$.
a) $m \angle 1=42^{\circ}$ and $m \angle 5=42^{\circ}$
b) $m \angle 4=64^{\circ}$ and $m \angle 5=64^{\circ}$
c) $m \angle 3=118^{\circ}$ and $m \angle 6=62^{\circ}$
d) $m \angle 2=(3 x-7)^{\circ}$ and $m \angle 6=(3 x-7)^{\circ}$
e) $m \angle 3=y^{\circ}$ and $m \angle 7=(180-y)^{\circ}$

Find the value of $\boldsymbol{x}$ that makes lines $u$ and $v$ parallel.
14)

15)

16) Given that $W X Y Z$ is a parallelogram and $m \angle W=63^{\circ}$, find the measures of the other three angles.

17) Solve for $x$.

18) Solve for $x$. Then find the length of RS.


19-22. Circle if the statement is (A) always, (S) sometimes or (N) never true.
19) If two lines are both perpendicular to the transversal, are they parallel to each other? A S N
20) If two lines are cut by a transversal, the alternate interior angles are supplementary. A S N
21) If two lines cut by a transversal form alternate exterior angles that are congruent, the two lines are parallel. A $\mathrm{S} N$
22) If two angles are vertical, they are supplementary. AS N

