Pg 116-117 #3-24 mult of 3
26

3) If Then: If angles are supplementary, then their sum is 180°

Converse: If two angles sum to 180°, then they are supplementary.

Inverse: If two angles are not supplementary, then their sum is not 180°

Contrapositive: If two angles do not sum to 180°, then they are not supplementary

biconditional: Two angles are supplementary if and only if they sum to 180°

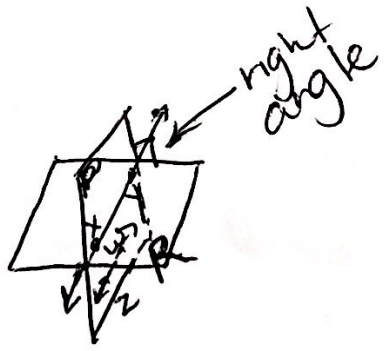
6) $2 \cdot 5 = 10$
$-3 \cdot 4 = -12$
$6 \cdot -7 = -42$
$-81 \cdot -100 = 8100$

Conclusion: The product of an even and an odd integer is an even integer.

9) yes

12) no

15)



See book for better drawing

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Statements	Reasons
1) $3(2x+9)=30$	1) given
2) $6x+27=30$	2) Distributive Property
3) $-27 \quad -27$	3) Subtraction Prop of =
4) $6x=3$	4) simplify
5) $\frac{}{6} \quad \frac{}{6}$	5) Division Prop of =
6) $x=\frac{1}{2}$	6) simplify

21) Reflexive

24) Transitive or substitution

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Given: $\angle 3$ and $\angle 2$ are complementary
$m\angle 1 + m\angle 2 = 90°$

Prove $\angle 3 \cong \angle 1$

Statements	Reasons
1) $\angle 3$ and $\angle 2$ are complementary	1) Given
2) $m\angle 1 + m\angle 2 = 90°$	2) Given
3) $m\angle 3 + m\angle 2 = 90°$	3) Def of complementary
4) $m\angle 1 + m\angle 2 = m\angle 3 + m\angle 2$	4) Substitution
5) $-m\angle 2 \qquad -m\angle 2$	5) Subtraction prop. of =
6) $m\angle 1 = m\angle 3$	6) Simplify
7) $m\angle 3 = m\angle 1$	7) Symmetric
8) $\angle 3 \cong \angle 1$	8) Definition of $\cong$

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