Final Exam Review- Geometry 22

Section 1

- 1.) a. false: two planes intersect at infinitely many points
 - b. true c. true d. false; any 2 points are collinear, and 3 are coplanar
 - e. false: any 2 lines are coplanar
- 2.) a. MN MX
- b. N
- c. A, N, X

d. ANC or MNX

C. DO

- f. AX and NR 3.) a. * *
- g. NX and NA
- h. true
- i. false



4.) a.











d.









- 5.) a. reflection
- b. rotation

c. translation

Section 2

- 1.) x = 56.) a. x = 15
- 2.) x = 4b. x = -3

3.) x = 7 c. x = 12

4.) x = 5d. $x = 34^{\circ}$ 5.) 64°

- a. If angles form a linear pair, then they are supplementary and adjacent.
 - If two angles are supplementary and adjacent, then they form a linear pair.
 - c. A pair of angles form a linear pair if and only if they are supplementary and adjacent.
 - d. yes because both the conditional and converse are true.
- 8.) If a person is a pediatrician, then he/she is a doctor.

Section 3

- 1.)
- a. ∠6 ≅ ∠3: Alternate Interior Angles Theorem ∠6 ≅ ∠2: Corresponding Angles
 - ∠6 m ∠2: Corresponding Angles Postulate
 - ∠6 ≈ ∠7: Vertical Angles Theorem
- b. ∠8 ≃ ∠1; Alternate Exterior Angles Theorem
 - ∠8 ≡ ∠4: Corresponding Angles Postulate
 - ∠8 ≃ ∠5; Vertical Angles Theorem

- c. ∠5

 ∠4: Alternate Interior Angles Theorem
 - ∠5

 ∠1: Corresponding Angles
 Postulate
 - ∠5 am ∠8; Vertical Angles Theorem
- d. ∠7 ≈ ∠2: Alternate Exterior Angles Theorem
 - ∠7 ≈ ∠3; Corresponding Angles Postulate
 - ∠7 m ∠6; Vertical Angles Theorem

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