

1.2 Segment Addition Postulate

Name _____

Answer each of the following with AT (Always True), ST (Sometimes True), and NT (Never True).

1. _____ Two points are collinear.
2. _____ Three points are collinear.
3. _____ Two points are coplanar.
4. _____ Three points are coplanar.
5. _____ A point and a line are coplanar.
6. _____ Two intersecting lines are coplanar.
7. _____ Two parallel line are coplanar.
8. _____ Two skew lines are coplanar.
9. _____ Four points are coplanar.

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10. Solve for x if S is between point R and T.

a) $RS = 5, ST = x^2, RT = 41$

b) $RS = 3(2x+5), ST = 18, RT = 95.$

11. Find the length of ST if S is between R and T.

a) $RS = 7a, ST = 12a, RT = 76.$

b) $RS = 3y + 1, ST = 2y, RT = 21$

c) $RS = 16$, $ST = 2x$, $RT = 5x + 10$

12. Solve for each variable.

$x^2 - 2x$ 63

x $3x$

x^3 $\frac{121}{49}$

x^2

225