**Algeometry** Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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.

.

B

I

T

(Geometry with infused Algebra) Period: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

For problems 1-3, use line segment BT. Set up an equation, solve, and find the length of , , and

1. BT = 21 BI = IT =
2. BT = BI = IT =
3. BT = BI = IT =

.

.

.

AB

C

T

For problems 4-6, use line segment AT. C is the midpoint of . Set up an equation, solve, find the length of , , and

1. AC = CT =
2. AC = CT =
3. AC = AT = 52

In the figure on the right, line *m* is a bisector of . Set up

*m*

.

.

R

P

S

.

an equation, solve, and find lengths PR, RS, and PS

1. PR = RS = 25
2. PR = RS =
3. PR = PS =

.

.

.

.

B

V

F

J

For problems 10-12,

1. BV = FJ =
2. BV = FJ =
3. BV+FJ = FJ =
4. Line *n* bisects at point N. and . Find the value of x.

**Bookwork Pg. 23-24: #1-6, 8-11 (show algebra), 15-18 (show algebra)**













