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**Lesson 4: Geometry and Passport to Advanced Math**

1. In the following equation, find the radius and express the equation in standard form:

2. If f(6)=8, f(9)=4, g(4)=10, and g(3)=6, find f(g(3)).

3.

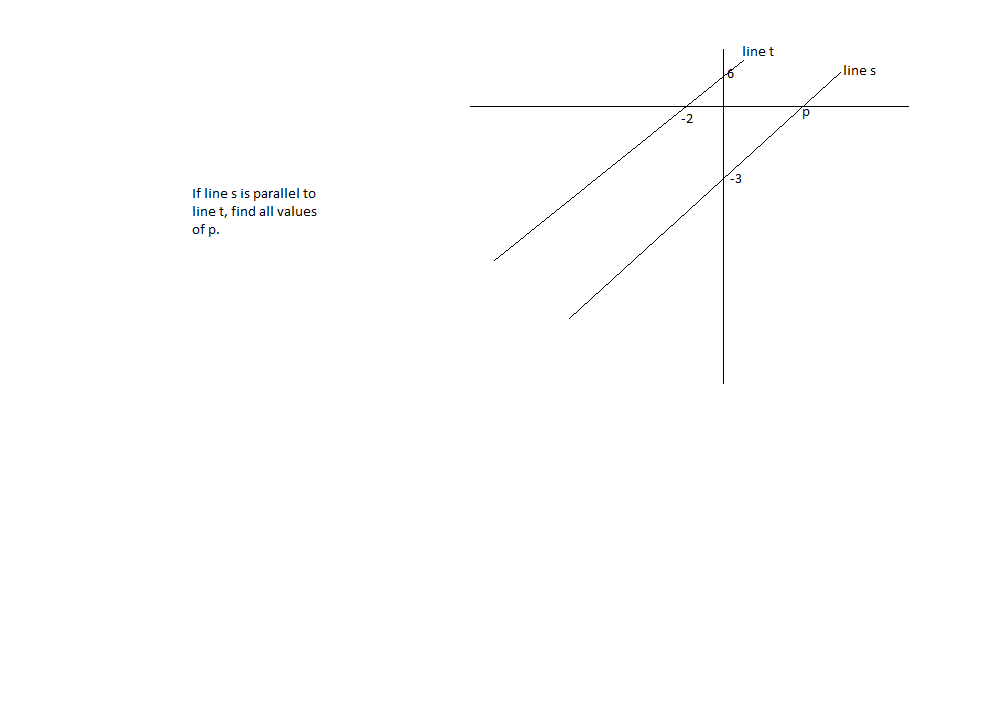
4. Find all values of b.

5. Find the sum of all values of m in the following 2 equations.

6.

7. If

8.



9.

10. In the following line y=Lx+5, if the line passes through (c,d) and c and d are both constants, find an expression for l in terms of c and d.

11. Find a value for k such that equations i and ii have no solutions.

(i)

12. In the following quadratic

13. in the polynomial,

14.

15. Graph the following quadratics. Find the roots and vertex

A .

B.

C.

16.

17.

18.

19. Sum the following polynomials.

20.

21.