

NAME:

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DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE

MTH05

Quiz 9 (Sample)

## Instructions

Show all work, using additional paper if needed. Mark your answers clearly. Simplify your answers whenever possible. Do not use a calculator. Use a pencil for all your work.

Factor each expression COMPLETELY

1.  $x^2 - 8x + 12 =$

2.  $9x^2 - 4y^4 =$

3.  $48x^3 - 3x =$

4.  $3x^3 - 12x^2 + 9x =$

5.  $6x^2 - 5x - 6 =$

Solve each equation using factoring:

6.  $x^2 - 7x = 0$

7.  $x^2 - 81 = 0$

8.  $x^2 + x - 42 = 0$

9.  $6x^2 - x - 22 = 0$

10.  $x^2 + 6x + 9 = 0$