Name_____ ID: 1

Benchmark #2 Study Guide D

Date_____ Period_____

Choose your own method to solve each equation. Be sure to use different methods.

1) $n^2 - 6n + 10 = 5$

2) $2a^2 + 12a + 52 = 10$

3) $10x^2 - 20x = 70$

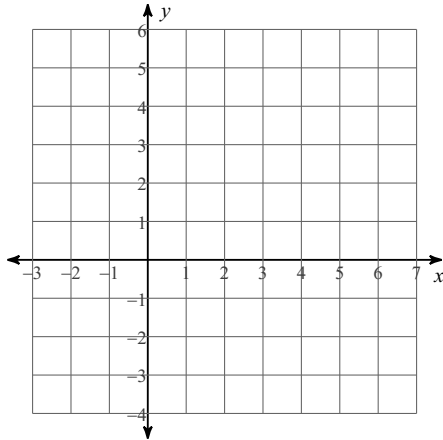4) $5x^2 = -25 + 20x$

5) $k^2 - 5k = 0$

6) $5x^2 + 25x = -20$

Find the x and y intercep(s).

7) $f(x) = 8x^2 - 8x - 8$

8) $f(x) = 4x^2 - 3x - 22$

Find the following: Direction, axis of symmetry, vertex, x -intercepts, y - intercept, range, end behavior, maximum, minimum, interval of increase, interval of decrease and rate of change between x =1 and x=3.

9) $f(x) = 2x^2 - 8x + 5$

10) $f(x) = -2x^2 + 12x - 16$