MTH 28.5, Quiz 2. [Take-home] Name (first, last): .....

Print out this quiz. Do the questions yourself and hand it in at the start of our next class. Questions 1 and 3 are worth 3 points each and you must show all your work in the space provided and give your own answers. Questions 2 and 4 are worth 2 points each. For these, circle the one correct answer (no work needs to be shown).

Q1. Solve: $4(3x - 2) + 6 = 5x - 16$

Q2. Solve this inequality and write the solution in interval notation: $x + 1 < 3x + 7$

(A) $(-3, \infty)$ **(B)** $(-\infty, -3)$ **(C)** $(3, \infty)$ **(D)** $(-\infty, 3)$

Q3. Graph the line $3x - 2y = 6$ carefully and accurately. In particular, show where it crosses the x and y axes.

Q4. The function f is given by:

$$f(x) = \frac{3x - 3}{x - 3}$$

Compute: $f(5)$

(A) 3 **(B)** 4 **(C)** 5 **(D)** 6