Red Belt Warm-Up
Wednesday March 1, 2006

1. Solve the following quadratic equations.

1a. $4x^2 + 16x = 0$

1b. $2x^2 - 50 = 0$

1c. $3x^2 + 15x + 18 = 0$

1d. $x^2 + \frac{2}{3}x + \frac{1}{9} = 0$

2. Solve the following simultaneously equation. Then graph to two lines to show that your solution is correct. Use the graph paper provided.

$$\begin{aligned} x - y &= -1 \\ x - 2y &= -3 \end{aligned}$$

3. Open your textbook 2B.

3a. Do problem 1d on page 155.

3b. Do problem 2a on page 158.

4. The length of a regular flow bed is 4 m longer than its width. Its width is 8 m shorter than its diagonal. Find the perimeter of the flower bed.