Answers

1. Equation solutions:
    (a) 7/5   (b) 9   (c) 7

2. "Word problem" solutions:
    (a) 16%   (b) 34%   (c) $300   (d) 3000

3. $y = x + 5$

4. $y = -\frac{1}{2}x + 7$.

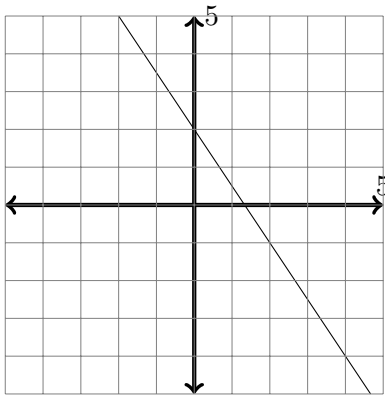5. slope: $-\frac{3}{2}$; intercepts: $x = \frac{4}{3}$, $y = 2$. Graph below.

6. The pairs of lines are:
    (a) parallel   (b) perpendicular; intersection: $(x, y) = (6, 0)$

7. Simplified exponents:
    (a) $\dfrac{2x^{10}}{y^9}$ (b) $\dfrac{625a^{28}b^{32}}{c^{56}}$ (c) $\dfrac{4x^9}{y^8}$

The graph for $3x + 2y = 4$

For extra practice, sketch the pairs of lines above (in Q6). Here are their graphs: