



Answers

1. Equation solutions:

- (a) $6/5$ (b) $11/6$ (c) 4

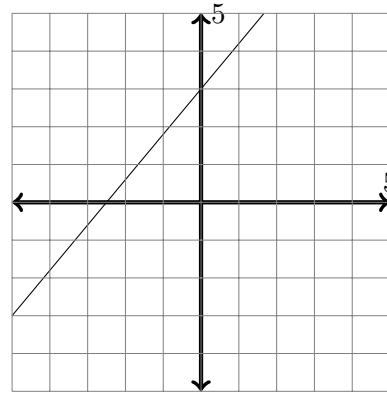
2. "Word problem" solutions:

- (a) \$9000 (b) 25% (c) \$600 (d) 20%

3. $x + y = 6$

4. $y = -\frac{1}{5}x + 2$.

5. slope: $\frac{6}{5}$; intercepts: $x = -\frac{5}{2}$, $y = 3$. Graph at right:



6. The pairs of lines are:

- (a) neither; intersection: $(x, y) = (1, -1)$
 (b) perpendicular; intersection: $(x, y) = (2, 0)$

7. Simplified exponents:

- (a) $\frac{8b^9}{3a^{17}c}$ (b) $\frac{36z^{22}}{x^{12}y^{14}}$ (c) $\frac{v^{10}}{49w^{12}}$

For extra practice, sketch the pairs of lines above (in Q6).

Here are their graphs:

