

Problem Set 15 — Even Answers

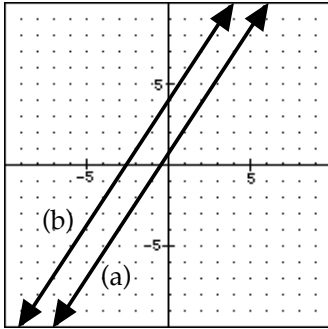
2. 1750 people

4. 1200 seats

6a. $m = \frac{1}{7}$

b. $d = 5\sqrt{2} \approx 7.071$

8. $2\sqrt{77} \text{ cm}^2 \approx 17.550 \text{ cm}^2$



10.

12a. $y = \frac{1}{2}x - 2$

b. $y = -2x + 3$

14. $(100 + 8\pi) \text{ ft}^2 \approx 125.133 \text{ ft}^2$

16. $x = \frac{15}{2}$

18. $x = \frac{3}{2}, \quad \frac{13}{2}$

20. $12 - 8mx^2$

22. $x = 3$

24. $x = -\frac{20}{11}$

26. 112

28. 14

30. 7