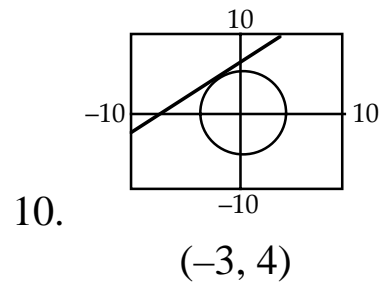
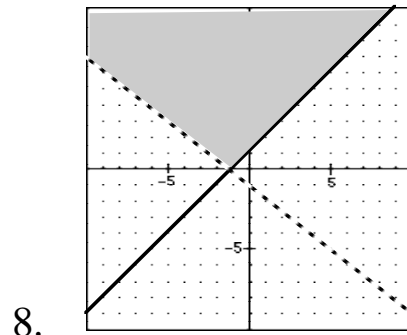
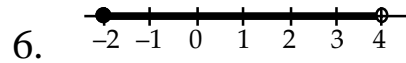


## Problem Set 99 — Even Answers

2. airplane: 120 mph  
wind: 30 mph

4. \$901.06      31.234 years



12. (4, -3, 2)

14.  $x = \frac{\ln 48}{\ln \frac{2}{3}} \approx -9.548$

16.  $\begin{bmatrix} 11 & 0 \\ 5 & 12 \end{bmatrix}$

18a.  $1.995 \times 10^{-10}$   
b. 4.013

20.  $\approx 0.344i + 4.913j$   
 $\approx 4.925 \angle 86^\circ$

22.  $c = \frac{abm}{bp + ap}$

24a.  $fg(x) = x^2 + 3x - 4$   
b.  $\{x \in \mathcal{R} \mid x \text{ is a positive integer}\}$   
c.  $\emptyset$

26.  $\frac{-11 + 6\sqrt{2}}{-7}$

28.  $\frac{ab(2a + b^2)}{2a + b^2 + 2b}$

30.  $C = 3\sqrt{7} \approx 7.937$