

## Problem Set 75 — Even Answers

2.  $-6, -5, -4, -3$  or  $-7, -6, -5, -4$

4. 5 hours

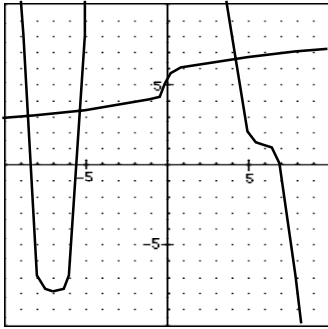
6.  $d = 8$ ; yes it crosses

8a. 1      b. 3      c.  $-1$

10a.  $x = 8$

b.  $x = 9$

c.  $x = -\frac{1}{2}$



12.

14a. 
$$\frac{g}{k}(x) = \frac{x^2 - 5x + 6}{x - 2}$$

$$= x - 3, \quad x \neq 2$$

b.  $\{x \in \mathcal{R} \mid x \neq 2\}$

c. It is the graph of the line  $y = x - 3$ , except the line has a hole in it at the point  $(2, -1)$ .

16.  $x = -4, 0, 2$

18.  $Pb = 43Sb - 33$

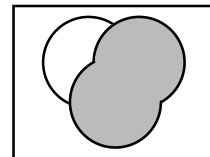
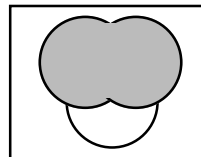
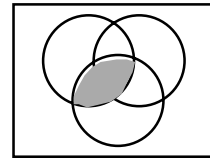
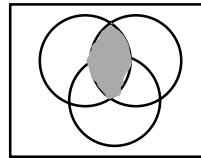
20.  $-\frac{1}{2} + 2i$

22.  $(6, 20)$

24.  $-\frac{1}{2} \pm \frac{\sqrt{15}}{10}i$

26.  $4 + \frac{9}{4}\sqrt[3]{2}$

28.  $m = n = \frac{5\sqrt{2}}{2} \approx 3.536$



30a.

b.

c.

d.