

Page 12

1. a) $4x^2 + 2x - 3$
 b) $4y^3 + 3xy - y$
 c) $6x^2 + 13x + 6$
 d) $3x + 12 + \frac{12}{x}$
 e) $4x^2 - 1$

Page 13

2. $2x + 4, R = 4$

3. a) $x - 2, R = 0$
 b) $3x + 4, R = 9$
 c) $2x^2 + x + 1, R = 3$
 d) $x^2 + x - 1, R = 0$
 e) $x^3 - x^2 + x - 1, R = 0$
 f) $x^2 - 3x + 9, R = 0$

Page 14

4. 1. 19 2. 3 3. 0

5. a) 1. $R = 0$ 2. $R = 0$ 3. $R = 0$
 b) 1 $R = -8$ 2. $R = 4$ 3. $R = 24$

6. Base = $2x + 5$

7. Perimeter = $10x - 8$

8. a) Height = $x + 1$
 b) Total Area = $10x^2 + 18x - 6$

9. Height = $x - 2$