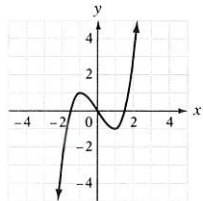
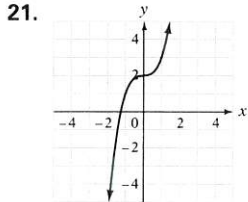
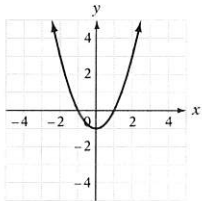


## SECTION 5.2

- 1.**  $P(3) = 13$       **3.**  $R(2) = 10$       **5.**  $f(-1) = -11$       **7a.** The leading coefficient is  $-1$ .      **b.** The constant term is  $8$ .  
**c.** The degree is  $2$ .      **9.** The expression is not a polynomial.      **11.** The expression is not a polynomial.  
**13a.** The leading coefficient is  $3$ .      **b.** The constant term is  $\pi$ .      **c.** The degree is  $5$ .      **15a.** The leading coefficient is  $-5$ .  
**b.** The constant term is  $2$ .      **c.** The degree is  $3$ .      **17a.** The leading coefficient is  $14$ .      **b.** The constant term is  $14$ .  
**c.** The degree is  $0$ .      **19.**



- 27.**  $-x^2 + 1$       **29.**  $5y^2 - 15y + 2$       **31.**  $7a^2 - a + 2$       **33.**  $P(x) + R(x) = 3x^2 - 3xy - 2y^2$   
**35.**  $P(x) - R(x) = 8x^2 - 2xy + 5y^2$       **37.**  $S(x) = 3x^4 - 8x^2 + 2x$ ;  $S(2) = 20$       **39a.**  $k = 8$       **b.**  $k = -4$   
**41.**  $P(x) - Q(x)$  is a fifth-degree polynomial.