

# Answer Key

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## Test C

1.  $-x^2 + 5x - 20$
2.  $10x^2 - 6x + 9$
3.  $12x^2 - 8x + 1$
4.  $17x^2 - 23x + 5$
5.  $-0.0004x^2 + 40x - 130,000$
6.  $-36x^3 - 12x^2 + 20x$
7.  $x^2 - 4x - 32$
8.  $27x^2 - 21x - 20$
9.  $2x^3 + 2x^2 - 2x + 4$
10.  $4x^2 - 9$
11.  $25x^2 + 20x + 4$
12.  $3x^2 - \frac{7}{2}x - \frac{3}{2}$
13.  $x = -4$  and  $x = 2$
14.  $x = -3$ ,  $x = 1$ , and  $x = 3$
15. B
16. C
17. A
18.  $(x + 8)(x + 7)$
19.  $(x - 9)(x + 7)$
20.  $(x - 6)(x - 2)$
21.  $(x + 7)(x - 4)$
22. length:  $x + 2$ ; width:  $x - 5$
23.  $(3x - 1)(x + 2)$
24.  $(10x - 6)(x + 1)$
25.  $(2x + 5)(2x - 5)$
26.  $(2x - 5)^2$
27.  $(3x + 7)^2$
28.  $3x(2x + 1)(x - 3)$
29.  $(x + 2)(x - 2)(x + 3)$
30.  $(x + 4)(x - 4)(x + 5)$
31.  $y = x^2 - 3x - 10$
32.  $y = x^2 + 8x + 15$
33.  $x = -3$  and  $x = 5$
34.  $x = -6$
35.  $x = -8$  and  $x = 5$
36.  $x = 3$  and  $x = 6$
37.  $x = -\frac{1}{3}$  and  $x = 1$
38.  $x = -\frac{4}{9}$  and  $x = 1$
39.  $x = -\frac{5}{4}$  and  $x = \frac{5}{4}$
40.  $x = -1$