

UNIT 3

Getting Ready

Prerequisite Skills

- Rectangular prisms
(Item 1) 6.G.A.2, 6.G.A.4
- Combining like terms
(Item 2) 8.EE.C.7b
- Factoring
 - GCF
 - Difference of squares
 - Trinomials(Items 3, 4) HSA-SSE.B.3
- Multiplying polynomials
(Item 5) HSA-APR.A.1
- Evaluating functions
(Item 6) HSF-IF.A.2
- x - and y -intercepts
(Item 7) HSF-IF.C.7a
- Symmetry
(Item 8) HSF-IF.B.4
- Reading graphs
(Item 9) HSF-IF.C.7c

Answer Key

1. $SA = 220$ square units;
 $V = 200$ cubic units
2. $4x^2 - x - 2$
3. $x^2(3x + 7y)(3x - 7y)$
4. $(2x + 1)(x - 5)$
5. $x^4 + 16x^3 + 96x^2 + 256x + 256$
6. $f(-1) = -7$
7. x -intercept: $(4, 0)$;
 y -intercept: $(0, -12)$
8. It is symmetric about the y -axis.
9. $f(28) = 14,000$