

**9-6. See below:**

a.  $(w + 14)^2 = 144$ ;  $w = -2$  or  $-26$

b.  $(x + 2.5)^2 = 2.25$ ;  $x = -1$  or  $-4$

c.  $(k - 8)^2 = 81$ ;  $k = -1$  or  $17$

d.  $(z - 500)^2 = 189225$ ;  $z = 65$  or  $935$

**9-7.** line: (a) and (c); parabola: (b) and (d)

**9-8.** A and D

**9-9. See below:**

a.  $10^{1/3}$

b.  $15^{1/2}$

c.  $18^{3/4}$

d.  $5^{-1/2}$

**9-10.** (2, 5)

**9-11.**  $a_n = \frac{4}{9} \cdot 3^{n-1}$  or  $a_n = \frac{4}{27} \cdot 3^n$