

**Lesson 8.1.5**

**8-49. See below:**

a.  $(x + 8)(x - 8)$

b.  $(y - 3)^2$

c.  $(2x + 1)^2$

d.  $5(x + 3)(x - 3)$

**8-50. See below:**

a. 1

b.  $\frac{20}{x}$

c.  $\frac{5}{t^3}$

d.  $x^2y$

**8-51. See below:**

a.  $(-3, -7)$

b.  $(5, -1)$

**8-52. See below:**

a. 4, 8, 12, 16;  $t(n) = 4 + 4(n - 1)$

b. 4, 8, 16, 32;  $t(n) = 4(2)^{n-1}$

c. Answers vary.

**8-53. See below:**

a.  $x = 1.5y + 5$

b.  $x = 24$

c.  $x = 2.5$

d.  $x = 0$  or  $3$