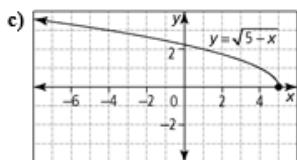
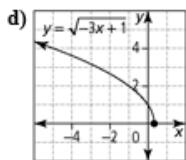


## 1 BLM 2-2 Section 2.1 Extra Practice



domain:  $\{x \mid x \leq 5, x \in \mathbb{R}\}$ ; range:  $\{y \mid y \geq 0, y \in \mathbb{R}\}$



domain:  $\{x \mid x \leq \frac{1}{3}, x \in \mathbb{R}\}$ ; range:  $\{y \mid y \geq 0, y \in \mathbb{R}\}$

- 2 c) vertical stretch by a factor of 0.25, horizontal stretch by a factor of 4, translation down 3 units;  
 domain:  $\{x \mid x \geq 0, x \in \mathbb{R}\}$ ; range:  $\{y \mid y \geq -3, y \in \mathbb{R}\}$   
 d) horizontal reflection in the y-axis, translation left 1 unit, translation down 5 units; domain:  $\{x \mid x \leq -1, x \in \mathbb{R}\}$ ; range:  $\{y \mid y \geq -5, y \in \mathbb{R}\}$

3. a) D b) A c) C d) B

4. c)  $y = -\sqrt{3x} - 7$  d)  $y = 5\sqrt{4(x-6)}$

5. c) horizontal stretch by a factor of 4, translation right 1 unit  
 d) horizontal stretch by a factor of 3, translation down 3 units, translation left 4 units

- 8c)  $\{x \mid x \geq 4, x \in \mathbb{R}\}$ ; range:  $\{y \mid y \leq 4, y \in \mathbb{R}\}$   
 d) domain:  $\{x \mid x \geq 0, x \in \mathbb{R}\}$ ; range:  $\{y \mid y \leq 0, y \in \mathbb{R}\}$

- 10 b) horizontal stretch by a factor of  $\frac{1}{2}$ , translation right 3 units, translation up 5 units