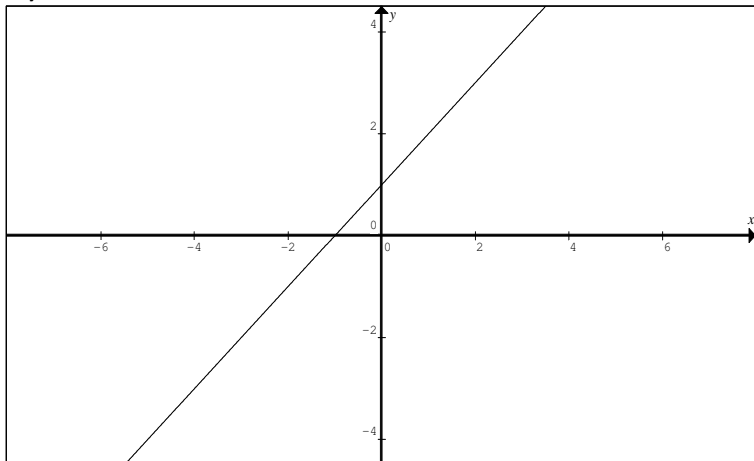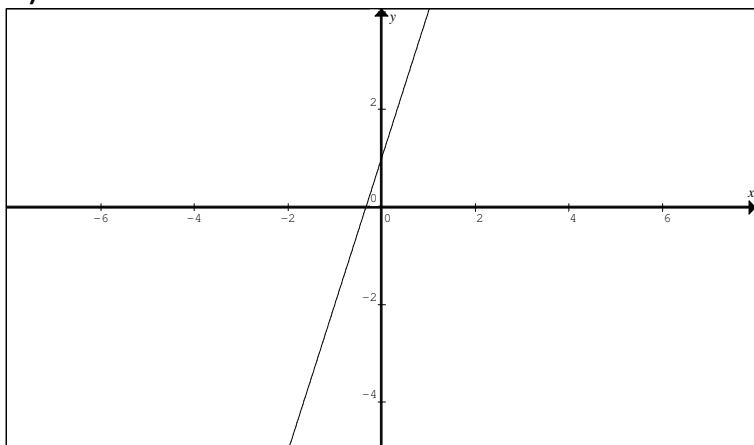# Intermediate Algebra Skill
Finding the Domain and the Range of a Function and its Inverse Based on their Graphs

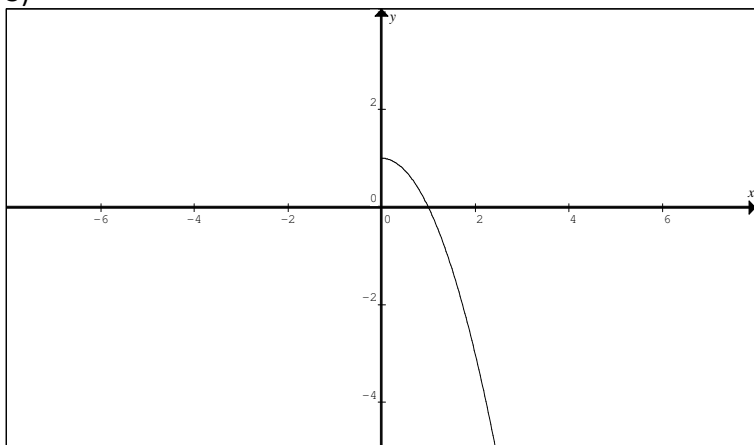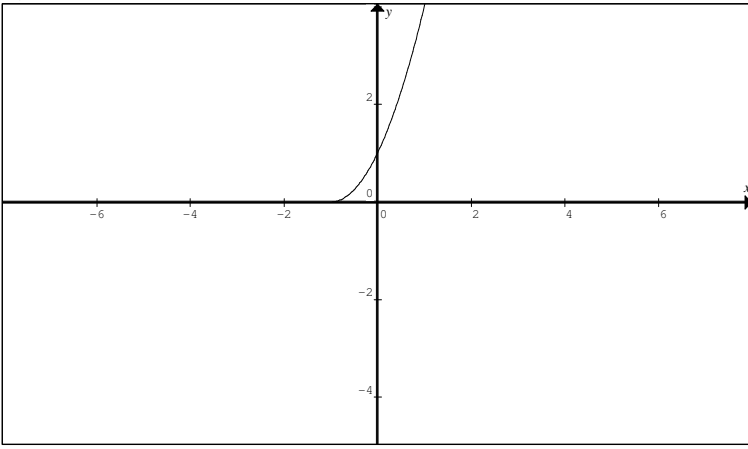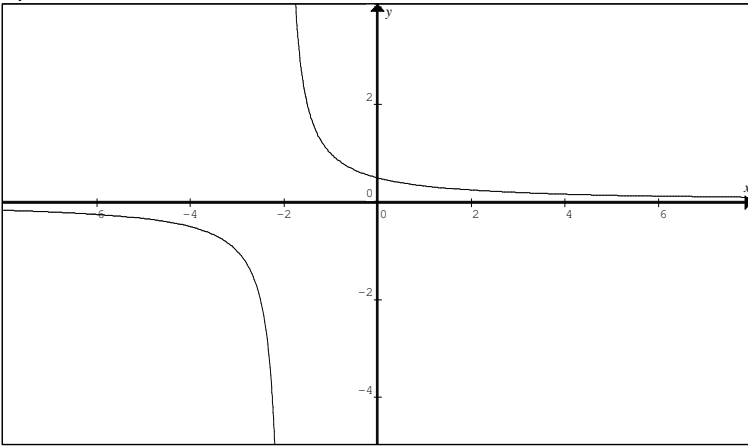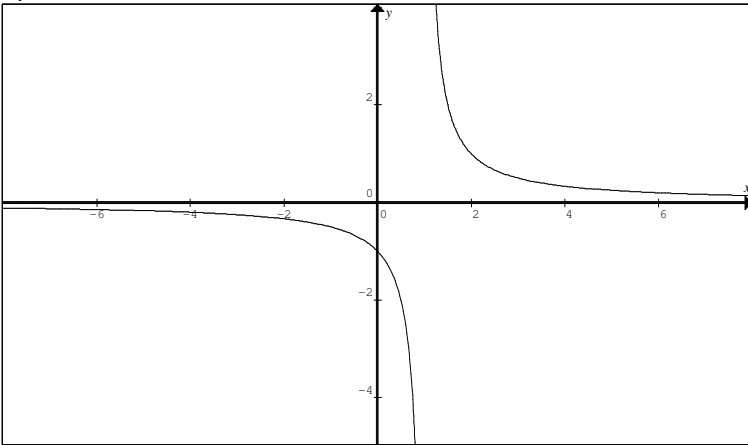Find the domain and range of the function and its inverse from their graphs:

1)

2)

3)

4)

5)

6)

7)
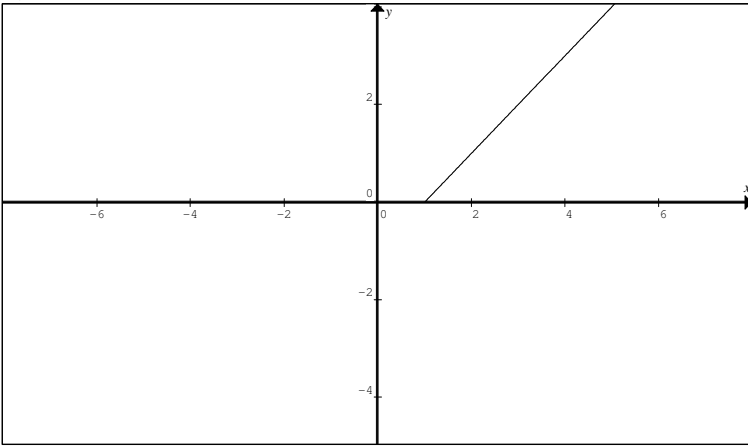
8)

9)

10)

Answers to Finding the Domain and the Range of a Function and its Inverse Based on their Graphs
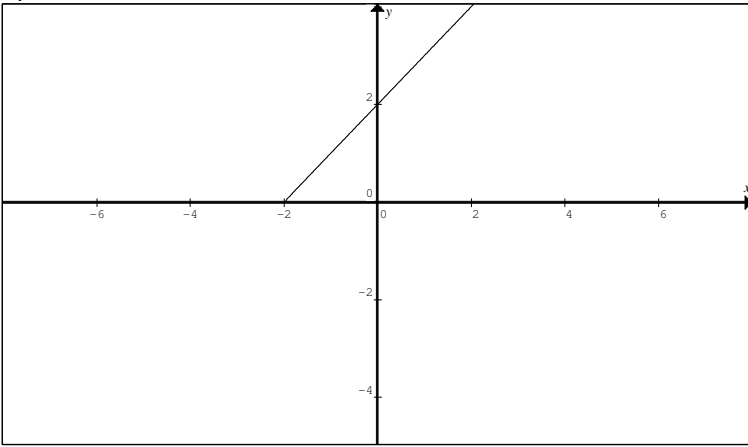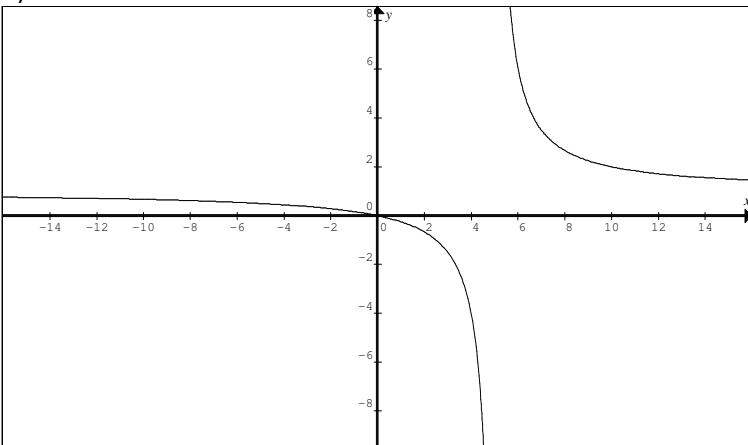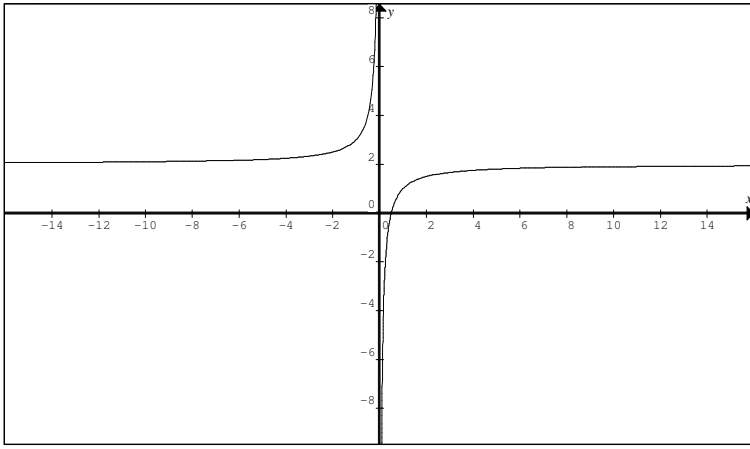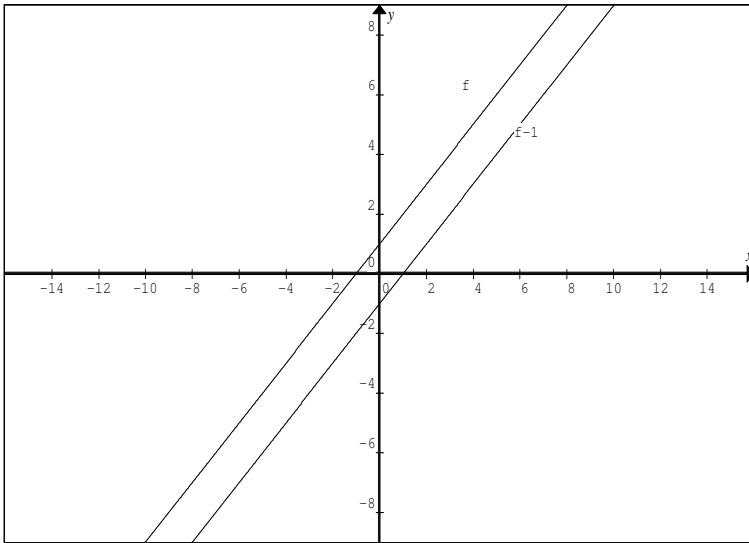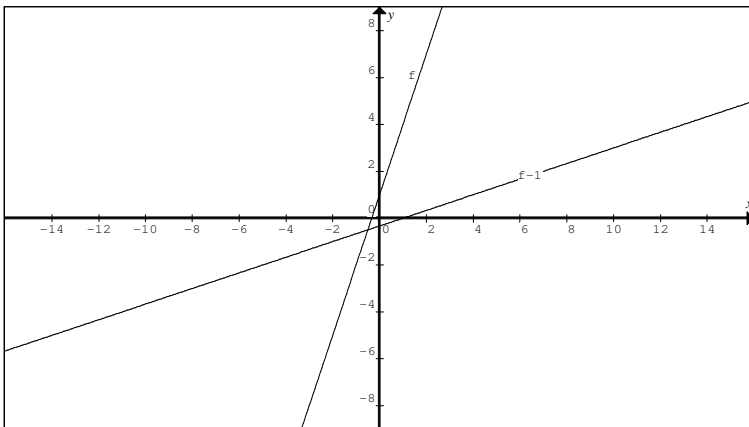
1) $D_f = R_{f^{-1}} = (-\infty, \infty)$
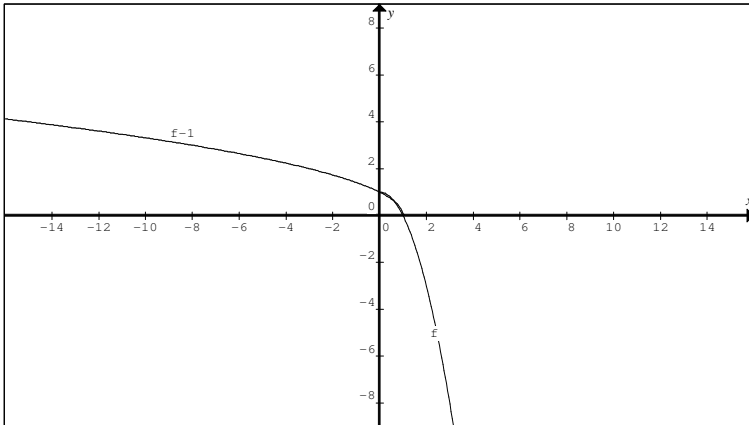
$R_f = D_{f^{-1}} = (-\infty, \infty)$

2) $D_f = R_{f^{-1}} = (-\infty, \infty)$
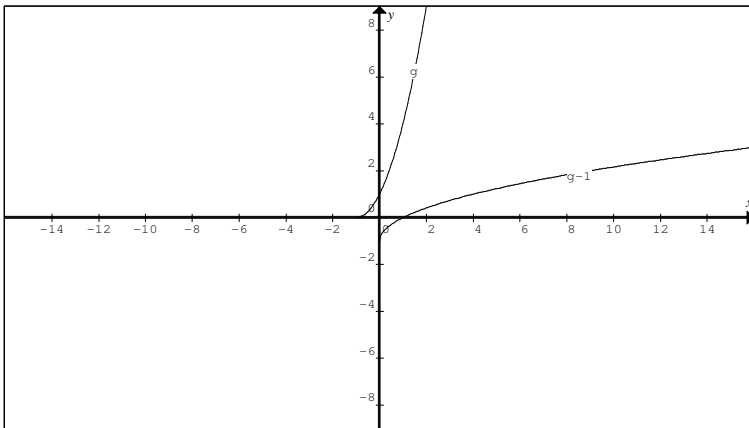
$R_f = D_{f^{-1}} = (-\infty, \infty)$

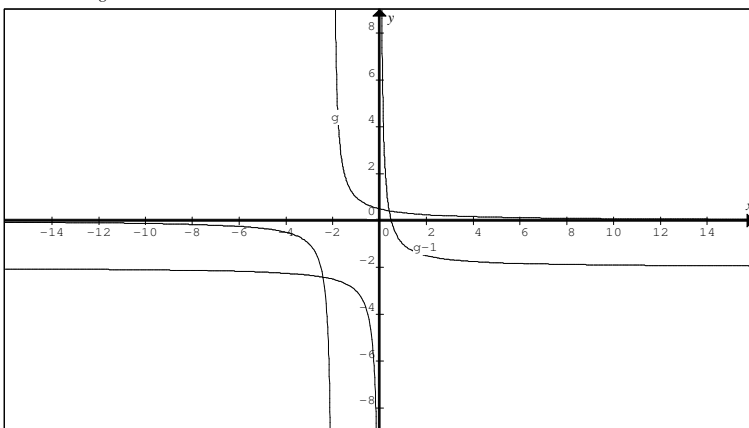3) $D_f = R_{f^{-1}} = [0, \infty)$

$R_f = D_{f^{-1}} = (-\infty, 1]$

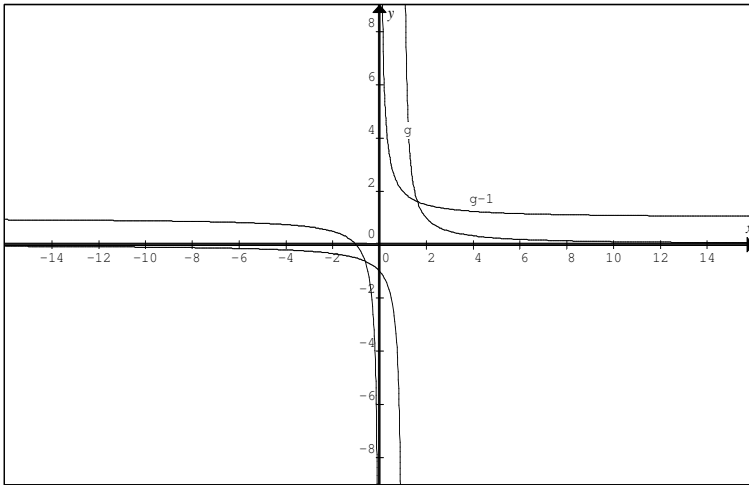4) $D_g = R_{g^{-1}} = [-1, \infty)$

$R_g = D_{g^{-1}} = [0, \infty)$

5) $D_g = R_{g^{-1}} = (-\infty, -2) \cup (-2, \infty)$
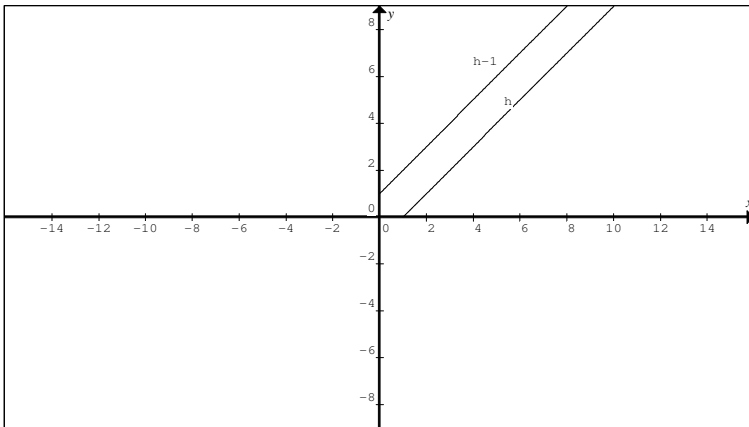
$R_g = D_{g^{-1}} = (-\infty, 0) \cup (0, \infty)$

6) $D_g = R_{g^{-1}} = (-\infty, 1) \cup (1, \infty)$
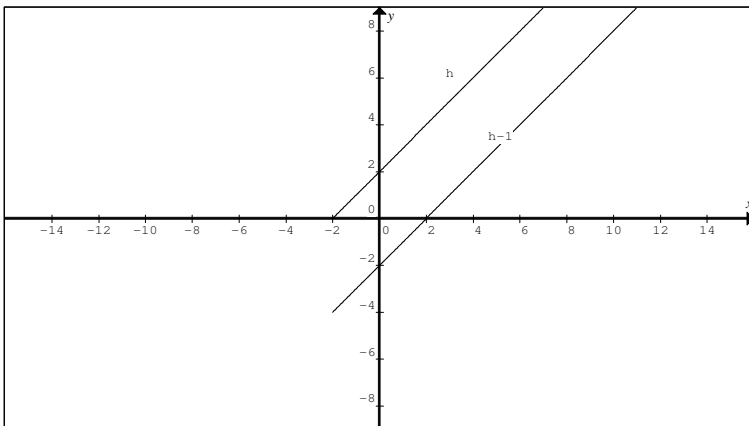
$R_g = D_{g^{-1}} = (-\infty, 0) \cup (0, \infty)$

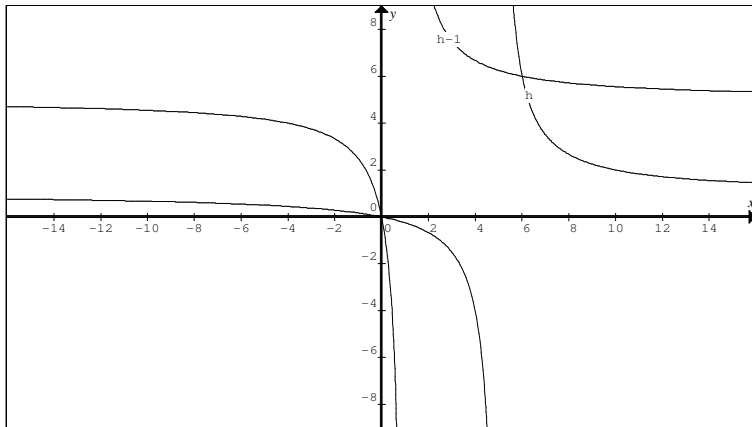7) $D_h = R_{h^{-1}} = [1, \infty)$

$R_h = D_{h^{-1}} = [0, \infty)$

8) $D_h = R_{h^{-1}} = [-2, \infty)$

$R_h = D_{h^{-1}} = [0, \infty)$

9) $D_h = R_{h^{-1}} = (-\infty, 5) \cup (5, \infty)$

$R_h = D_{h^{-1}} = (-\infty, 1) \cup (1, \infty)$

10) $D_f = R_{f^{-1}} = (-\infty, 0) \cup (0, \infty)$

$R_f = D_{f^{-1}} = (-\infty, 2) \cup (2, \infty)$