

Use the functions below to answer the given questions:

$$a(x) = 5x - 2$$

$$b(x) = x^2 + 1$$

$$c(x) = 4 - 7x$$

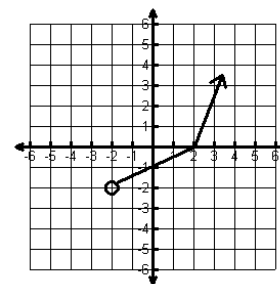
$$d(x) = -2x + 1$$

1. Find $(a \circ b)(x)$ 2. Find $(b \circ d)(x)$ 3. Find $(d \circ a)(-3)$ 4. Find $(b \circ c)(3)$ 5. Find $(c(a(x)))$ 6. Find $(d(b(4)))$

7. Graph Given, Find

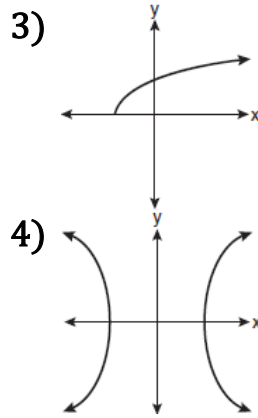
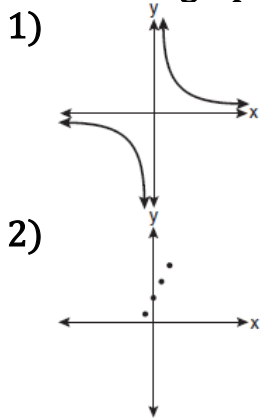
Domain? _____ Range _____

Function? _____



8. If $f(x) = 5x - 2$ Find $f(3)$, $f(a)$, $f(x+2)$

9. Which graph does *not* represent a function?



10. Which set of ordered pairs represents a function?

1) $\{(0, 4), (2, 4), (2, 5)\}$

3) $\{(4, 1), (6, 2), (6, 3), (5, 0)\}$

2) $\{(6, 0), (5, 0), (4, 0)\}$

4) $\{(0, 4), (1, 4), (0, 5), (1, 5)\}$