

## APPLYING OPERATIONS

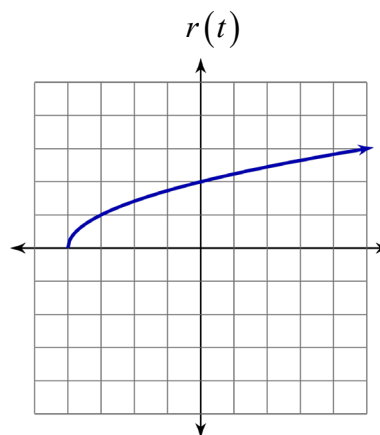
### Focusing on Notation

Use the given information below to perform the indicated operations.

Given

$$v(t) = -4t + 7$$

$t$	$d(t)$
-5	2
-3	1
-1	-4
0	-6
1	-5
3	-2
5	0



1)  $(d + v - r)(-3) =$

3)  $(r \cdot v)(-5) =$

2)  $(r + d)(5) - (d \cdot v)(1) =$

4)  $\left(\frac{d}{r}\right)(0) =$

### Finding Domain Restrictions

Find  $(f \cdot g)(x)$  and  $\left(\frac{f}{g}\right)(x)$  for each of the following pairs of functions. Indicate any domain restrictions. Write “none” if there is not a domain restriction.

5)  $f(x) = x^2 - 6x$

$$g(x) = x - 6$$

6)  $f(x) = x + 2$

$$g(x) = x^2 + 4$$

7)  $f(x) = x^{\frac{3}{2}}$

$$g(x) = x^{\frac{1}{2}}$$