Composition of Functions - Matching Worksheet

Write the letter of the answer that matches the problem.

defined below.

1. The two functions t(x) and v(x) are

a.
$$f(m-7) = 9m-63$$
.

b. t(5) = 42 and

v(42) = 1767.

c. f(m-8) = 4m-32.

d. f(m-9) = 1m-9.

t(x) = 9x - 3

t(x) = 4x - 2

$$v(x) = x^2 + 3$$

Evaluate the composition of functions v(t(5))

2. The two functions t(x) and v(x) are defined below.

$$v(x) = x^2 + 2$$

Evaluate the composition of functions v(t(6))

3. Use the following function rule to find

_____ f(n

f(m - 7). Simplify your answer.

$$f(c) = 9c$$

4. The two functions t(x) and v(x) are defined below.

$$t(x) = 5x - 3$$

$$v(x) = x^2 + 3$$

Evaluate the composition of functions v(t(8))

5. Use the following function rule to find

f(m - 8). Simplify your answer.

$$f(c) = 4c$$

e. t(8) = 37 and v(37) = 1372.

6. Use the following function rule to find

f(m - 9). Simplify your answer.

$$f(c) = 1c$$

f. t(6) = 22 and v(22) = 486.