**Composite Functions GREEN**

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| --- | --- | --- | --- |
| f(x) = x + 4 and g(x) = 3x  Calculate fg(2) | f(x) = 4x + 2 and g(x) = x – 1  Calculate gf(-4) | f(x) = x² and g(x) = 3x + 2  Calculate gf(6) | f(x) = 3x² + 4  Calculate f²(2) |
| f(x) = 5x and g(x) = x – 2  Calculate gf(x) | f(x) = 2x + 4  Calculate f²(x) | f(x) = x² and g(x) = 5x – 1  Calculate fg(x) | f(x) = 2x² and g(x) = 4x + 3  Calculate gf(x) |

**Composite Functions AMBER**

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| --- | --- | --- | --- |
| f(x) = x + 4 and g(x) = 3x  Calculate fg(2)  fg(2) = f(3(2)) = f(6) | f(x) = 4x + 2 and g(x) = x – 1  Calculate gf(-4)  gf(-4) = g(4(-4) + 2) = g(-14) | f(x) = x² and g(x) = 3x + 2  Calculate gf(6) | f(x) = 3x² + 4  Calculate f²(2) |
| f(x) = 5x and g(x) = x – 2  Calculate gf(x)  gf(x) = g(5x) | f(x) = 2x + 4  Calculate f²(x) | f(x) = x² and g(x) = 5x – 1  Calculate fg(x) | f(x) = 2x² and g(x) = 4x + 3  Calculate gf(x) |

**Composite Functions RED**

|  |  |  |  |
| --- | --- | --- | --- |
| f(x) = x + 4 and g(x) = 3x  Calculate fg(2)  fg(2) = f(3(2)) = f(6)  = 6 + 4 = 10 | f(x) = 4x + 2 and g(x) = x – 1  Calculate gf(-4)  gf(-4) = g(4(-4) + 2) = g(-14) | f(x) = x² and g(x) = 3x + 2  Calculate gf(6)  gf(6) = g(6²) | f(x) = 3x² + 4  Calculate f²(2) |
| f(x) = 5x and g(x) = x – 2  Calculate gf(x)  gf(x) = g(5x) | f(x) = 2x + 4  Calculate f²(x)  f²(x) = f(2x + 4) | f(x) = x² and g(x) = 5x – 1  Calculate fg(x) | f(x) = 2x² and g(x) = 4x + 3  Calculate gf(x) |