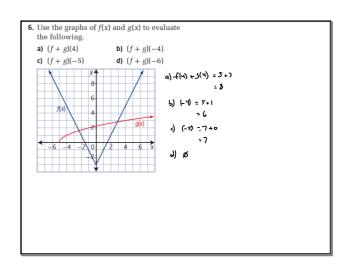
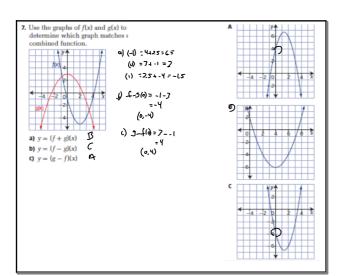


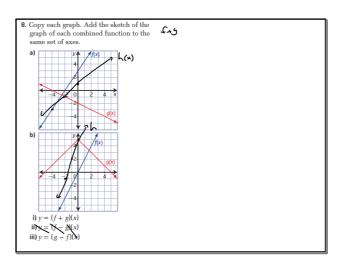
Adding & Subtracting (10.1)

hw: p483#6, 7, 8ab (f+g), 9ac, 10ac

p496#2.







```
9ac

9. Given f(x) = 3x^2 + 2, g(x) = 4x, and h(x) = 7x - 1, determine each combined function.

-a) y = f(x) + g(x) + h(x)

b) y = f(x) + g(x) - h(x)

-c) y = f(x) - g(x) + h(x)

d) y = f(x) - g(x) - h(x)

9a) x = 3x^2 + 2 + 4x + 7x - 1

x = 3x^2 + 1 + 1

9b) x = 7x^2 + 7x + 1

x = 7x^2 + 7x + 1
```

```
10ac

10. If h(x) = (f + g)(x) and f(x) = 5x + 2, determine g(x).

a) h(x) = x^2 + 5x + 2
b) h(x) = \sqrt{x + 7} + 5x + 2
c) h(x) = 2x + 3
d) h(x) = 3x^2 + 4x - 2

10 a) g(x) = x^2 + 5x + 2 - (5x + 2)
= x^2
c) g(x) = x^2 + 3 - (5x + 2)
= x^2 + 3 - 5x - 2
= -7x + 1
```

