

Answers Page 88 # 4-6,8,11,12

4. a) $9a - 5c + 5$ d) $3x^2 - 9x - 3$
b) $2x^2 + 3x + 4y + z$ e) $2x^2 - 5xy + 2y^2$
c) $3x - 3y + 1$ f) $5x^2 - y^2 - 1$
5. a) $m - 4n + p + 7$ d) $-2m^2 - 5mn + 15n^2$
b) $-8m - 4q + 1$ e) $-x^2 + 4y^2 + 15$
c) $-a^3 + 4a^2 - 2a$ f) $3x^2 + 50$
6. a) $11x - 7y$ d) $2x + xy - 4y + yz$
b) $4x^2 - 16x - 3$ e) $\frac{3}{10}x + \frac{4}{3}y$
c) $4x^2$ f) $\frac{1}{12}x + \frac{1}{4}y + 1$
8. a) $f(x) = 2x^2 + 4x - 9$ and $g(x) = 2x^2 + 4x - 5 \therefore f(x) \neq g(x)$
b) $s_1(1) = 27$ and $s_1(1) = 9 \therefore s_1(t) \neq s_2(t)$
c) e.g., if $x = -1$, then $y_1 = 2$ and $y_2 = 0$
 $\therefore y_1 \neq y_2$
d) $f(n) = 2n^2 + 2n - 9$ and $g(n) = 2n^2 + 2n - 9$
 $\therefore f(n) = g(n)$
e) $p = 1, q = 1, y_1 = 9; y_2 = 5 \therefore y_1 \neq y_2$
f) $f(2) = 6$
 $g(2) = 14$
 $\therefore f(m) \neq g(m)$
11. $3x + 3y + 2$
12. a) $P(x) = -50x^2 + 2350x - 9500$ b) \$11 500