

2. $\underline{Q(x) = 2x + 7; R(x) = 4}$ $(x - 1)(2x + 7) + 4 = 2x^2 + 5x - 3$

3. a) $A(x) = 2x^2 - x - 6;$ $B(x) = 2x + 3$ $\underline{Q(x) = x - 2; R(x) = 0}$

b) $A(x) = 3x^2 - 2x + 1;$ $B(x) = x - 2$ $\underline{Q(x) = 3x + 4; R(x) = 9}$

c) $A(x) = 2x^3 + 3x^2 + 2x + 4;$ $B(x) = x + 1$ $\underline{Q(x) = 2x^2 + x + 1; R(x) = 3}$

d) $A(x) = x^3 - 2x + 1;$ $B(x) = x - 1$ $\underline{Q(x) = x^2 + x - 1; R(x) = 0}$

e) $A(x) = x^4 - 1;$ $B(x) = x + 1$ $\underline{Q(x) = x^3 - x^2 + x - 1; R(x) = 0}$

f) $A(x) = x^3 + 27;$ $B(x) = x + 3$ $\underline{Q(x) = x^2 - 3x + 9; R(x) = 0}$
