Precalculus 2.6 Homework

For each rational function, do the following:

$$1. R(x) = \frac{4x}{x-3}$$

2.
$$G(x) = \frac{x+6}{(x+3)(4-x)}$$

3.
$$H(x) = \frac{x+5}{x^2-x-30}$$

4.
$$P(x) = \frac{-2x^2 + 8}{3x^2 + 12x + 12}$$

5.
$$F(x) = \frac{4x(x-1)}{2x^2-5x-3}$$

6.
$$Q(x) = \frac{3x^2}{2x^2 + x}$$

For each rational function, do the following:

7.
$$R(x) = \frac{3x+5}{x-6}$$

8.
$$H(x) = \frac{x^3 - 8}{x^2 - 5x + 6}$$

9.
$$P(x) = \frac{4x^2}{x^3 - 1}$$

10.
$$Q(x) = \frac{2x^2 - 5x - 12}{3x^2 - 11x - 4}$$

11.
$$F(x) = \frac{8x^2 + 26x - 7}{4x - 1}$$

12.
$$G(x) = \frac{x^4 - 16}{x^2 - 2x}$$