

11.1 Homework

What values make these rational expressions undefined?
(What are the excluded values?)

$$1) \frac{3}{x-3}$$

$$2) \frac{2x+2}{(x+1)(x-1)}$$

$$3) \frac{5}{x^2+5x+6}$$

Simplify These rational expressions. Also state what values are excluded (What values make the expression undefined).

$$4) \frac{x+3}{3x+9}$$

$$5) \frac{x-2}{x^2-x-2}$$

$$6) \frac{1-x}{x^2-2x-3}$$