

Rational Expression Excluded Values

Luxor Hotel & Casino (Las Vegas, United States)



Excluded Values

Any value that results in a denominator of zero must be excluded from the domain of that variable

$$\frac{2x + 3}{4x}$$


$$x \neq 0$$

State the excluded value

Remember that the denominator cannot equal 0

$$\frac{5m + 3}{m - 6}$$

$$m - 6$$

$$m - 6 = 0$$

$$+6 \quad +6$$

$$m \neq 6$$

$$\frac{3b + 2}{b - 7}$$

$$b - 7 = 0$$

$$+7 \quad +7$$

$$b \neq 7$$

State the excluded value

$$\frac{5}{x} \quad x \neq 0$$

$$\frac{x+2}{x+1} \quad x \neq -1$$

$$\frac{1}{x+4} \quad x \neq -4$$

$$\frac{x}{2x-8} \quad x \neq 4$$

Homework!!

Book page 681 problems 12 - 19 all

**Zenith Europe
(Strasbourg, France)**

