Rational Expressions

State the excluded values for each.

1)
$$\frac{60x^3}{12x}$$

2)
$$\frac{70v^2}{100v}$$

3)
$$\frac{m+7}{m^2+4m-21}$$

4)
$$\frac{n^2 + 6n + 5}{n + 1}$$

5)
$$\frac{35x-35}{25x-40}$$

6)
$$\frac{-n^2 + 16n - 63}{n^2 - 2n - 35}$$

Simplify each and state the excluded values.

7)
$$\frac{p+4}{p^2+6p+8}$$

8)
$$\frac{9}{15a-15}$$

9)
$$\frac{2a^2 + 10a}{3a^2 + 15a}$$

10)
$$\frac{p^2 - 3p - 10}{p^2 + p - 2}$$

(1)
$$\frac{x^2 + x - 6}{x^2 + 8x + 15}$$

12)
$$\frac{\alpha^2 + 5\alpha + 4}{\alpha^2 + 9\alpha + 20}$$

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