

DL CH 10 Review

Simplify each and state the excluded values.

$$1) \frac{6k - 30}{k^2 - 8k + 15}$$

$$2) \frac{x^2 - 8x + 16}{x - 4}$$

Solve each equation. Remember to check for extraneous solutions..

$$3) 9|-9 + 4m| - 4 = 113$$

$$4) -6 + 4|2p + 1| = -2$$

$$5) -5 + \sqrt{7k} = 2$$

$$6) 3 + (x - 2)^2 = 12$$

$$7) 2(x - 3)^3 - 7 = 9$$

$$8) 12 = 6(x - 4)^2 + 24$$

Simplify each and state the excluded values (x not equal to)

$$9) \frac{a + 10}{a^2 - 4a - 32} \div \frac{1}{a + 4}$$

$$10) \frac{x - 8}{x^2 - 10x + 16} \cdot \frac{x^2 - 11x + 18}{x + 7}$$

Solve each equation using equivalent equations. Remember to check for extraneous solutions.

$$11) \frac{1}{6a} = \frac{1}{6} + \frac{1}{3a}$$

$$12) -4.4x - 16.81 = -6.7x - 6$$