

DL CH 10 Review

Simplify

1) $6k = 30$
 $\frac{6k}{6} = \frac{30}{6}$
 $k = 5$

2) $x^2 - 8x + 16$
 $(x-4)^2$

Solve each

3) $9 \frac{11}{2}$
 $\frac{11}{2}$

4) $0 + 1 = -1$
 $\{0, -1\}$

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

6) $3 + (x-2)^2 = 12$
 $\{5, -1\}$

7) $2(x-3) - 7 = 9$
 $\{5\}$

8) $12 = 0(x-4) + 24$
 no solution

Simplify each

9) $\frac{a+10}{a^2-4a} - \frac{1}{a-4}$
 $\frac{a+10}{a(a-4)} - \frac{1}{a-4}$
 $\frac{a+10-1}{a(a-4)} = \frac{a+9}{a(a-4)}$

10) $\frac{x-8}{x^2-10x+16} - \frac{x^2-11x+16}{x+7}$
 $\frac{x-8}{(x-2)(x-8)} - \frac{(x-8)(x-4)}{(x+7)(x-8)}$
 $\frac{1}{x-2} - \frac{x-4}{x+7}$

Solve each equation

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

12) $-4x^2 - 6x = 6$
 $\{4, 7\}$