Solve each equation by factoring.

Diff Squares

$(x-8)(x+8)$

1) $x^2 - 64 = 0$

$+8 \quad +8$

$x - 8 = 0$

$x = 8$

$-8 \quad -8$

$x + 8 = 0$

$x = -8$

$SS = \{8, -8\}$

① Pull out a GCF
② Everything on one side of =
③ Factor
④ Find the SS (zeroes)

Solve each equation by factoring.

$4n^2 - 12 = -8n$ $+8n \quad +8n$

3) $4n^2 + 8n - 12 = 0$

$\frac{4n^2}{4} + \frac{8n}{4} - \frac{12}{4} = 0$

$4(n^2 + 2n - 3) = 0$

product -3

sum 2

$-1, 3$

$-3, 1$

$4(n-1)(n+3) = 0$

$n - 1 = 0$ $\quad +1 \quad +1$

$n = 1$

$n + 3 = 0$ $\quad -3 \quad -3$

$n = -3$

$SS = \{1, -3\}$

$D = CF = 4$

$= 0$ ✓

Homework: Factoring #3

Questions - Finish up to Number 8

Also, remember your presenations are taking place next week. Please submit your presentations on Edsby in the place provided on our news feed.