Starter 10 FEB 2017

Factor and Solve by completing the square.

$4x^2 + 28x + 33 = 0$

$-33 \quad -33$

$4x^2 + 28x + 49 = -33 + 49$

$(2x+7)^2 = 16$

$2x+7 = \pm 4$

$2x+7 = 4$ or $2x+7 = -4$

$-7 \quad -7 \qquad -7 \quad -7$

$2x = -3 \qquad 2x = -11$

$\frac{2x}{2} = \frac{-3}{2} \qquad \frac{2x}{2} = \frac{-11}{2}$

$x = -\frac{3}{2} \qquad x = -\frac{11}{2}$

$(2x+7)$	
$4x^2$	$14x$
$14x$	49

Review Solving Quadratic Equations with perfect squares.
Factoring and more all leading to the left.

1) $(4x-7)^2 = 9$

$(4x-7)(4x-7) = 9$

Solve for the variable.

2) $(x+8)^2 = 25$

3) $3(x+5)^2 = 48$

4) $3(2x+7)^2 + 12 = 87$

Factor and Solve for the variable by completing the square.

5) $x^2 + 10x - 11 = 0$

6) $x^2 - 8x - 65 = 0$

7) $4x^2 + 28x + 13 = 0$

Show your work. Turn in before you leave.