

October 28, 2016

$$2x + 5x$$

$GCx = x$

$$x(2+5)$$

$$2(x+3) + 5(x+3)$$

$GCx = (x+3)$

$$(x+3)(2+5)$$

Oct 28-9:10 AM

Factor by Grouping

① $\boxed{x^2 + 4x} \quad \boxed{-7x - 28}$
Group #1 Group #2

② $x(x+4) - 7(x+4)$
 $GCx = (x+4)$

③ $(x+4)(x-7)$ *fully factored*
F: $x \cdot x = x^2$
 O: $x \cdot (-7) = -7x$
 I: $4 \cdot x = 4x$
 L: $4 \cdot (-7) = -28$

$x^2 - 7x + 4x - 28$ ✓
 $x^2 - 3x - 28$

Oct 28-9:39 AM