

3/16/16

p. 513

11, 13, 15, 18

11. $2x^2 + 19x + 24$

$2x^2 + 16x + 3x + 24$

$2x(x+8) + 3(x+8)$

$(2x+3)(x+8)$

Factors ⁴⁸ $2 \times 24 = 48$	Sum of Factors 19
<p>What two numbers multiplied together equal 48 and add up to 19</p> <p>6×8 3×16</p> <p>5×16 $3 + 16 = 19$</p>	

13. $4x^2 + 38x + 70$

$4x^2 + 28x + 10x + 70$

$4x(x+7) + 10(x+7)$

$(4x+10)(x+7)$

Factors of $4 \times 70 = 280$	Sum of Factors 38
28×10	$28 + 10$

15. $4x^2 - 13x + 10$

$4x^2 - 8x - 5x + 10$

$4x(x-2) + 5(x-2)$

$(4x-5)(x-2)$

Factors of $4 \times 10 = 40$	Sum of Factors equal -13
-5×-8	$-5 + -8 = -13$

18.

$$12x^2 + 69x + 45$$

can something be ~~put~~ factor from all 3
yes (3)

$$3(4x^2 + 23x + 15)$$

joy joy another one of those

$$3(4x^2 + 20x + 3x + 15)$$

$$3[4x(x+5) + 3(x+5)]$$

$$3(4x+3)(x+5)$$

Factor	Add up
$4 \times 15 = 60$	23
2×30	
1×60	
3×20	3+20
yes	✓✓