

## Things you already know...

$$18 - 5 = 13$$



$$12 - (-5) = 17$$

$$15x - 31x = -16x$$

$$15 + (-31)$$

$$-16 - (-11) = -5$$





Method: 2

$$\begin{aligned}
 &(5x - 11) - (3x - 6) \\
 &5x - 11 - (3x) - (-6) \\
 &5x - 11 - 3x + 6 \\
 &\boxed{2x - 5}
 \end{aligned}$$

$$(5x - 11) - (3x - 6)$$

Add the Opposite!

$$(5x - 11) + (-3x + 6)$$

Remove the brackets.

$$5x - 11 - 3x + 6$$

Collect like terms.

$$\begin{aligned}
 &5x - 3x - 11 + 6 \\
 &\boxed{2x - 5}
 \end{aligned}$$

You Try

$(20x^2 + 12x - 7) - (13x^2 - 2)$   
 $(20x^2 + 12x - 7) + (-13x^2 + 2)$   
 $20x^2 + 12x - 7 - 13x^2 + 2$   
 $20x^2 - 13x^2 + 12x - 7 + 2$   
 $\boxed{7x^2 + 12x - 5}$

$20x^2 + 12x - 7 - 13x^2 - 2$

$$20x^2 - 13x^2 + 12x - 7 + 2$$

Try This!

$$(6x^2 - 4x + 2) - (-8x^2 - 9x + 2)$$

$$6x^2 - 4x + 2 + (8x^2 + 9x - 2)$$

$$6x^2 - 4x + 2 + 8x^2 + 9x - 2$$

$$6x^2 + 8x^2 - 4x + 9x + 2 - 2$$

$$14x^2 + 5x$$

$$(6x^2 - 4x + 2) - (-8x^2 - 9x + 2)$$

$$6x^2 - 4x + 2 + 8x^2 + 9x - 2$$

$$6x^2 + 8x^2 - 4x + 9x + 2 - 2$$

$$14x^2 + 5x$$

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(No algebra tiles just combine like terms and subtract)

#7 a, c

#8 a, c, f, h

