

Expanding brackets

Expand and simplify as far as possible.

Can you find the
the mistake?
1 2 3 4 5 6 7 8 9

$(4x - 5)(3 - 2x)$ <i>Solution: $12x - 8x - 15 - 10x = \underline{-6x - 15}$</i>	$(d + 8)^2$ <i>Solution: $d^2 + 64$</i>
$(5p + 9)(5p - 9)$ <i>Solution: $25p^2 - 45p - 45p - 81 = \underline{25p^2 - 90p - 81}$</i>	$3t(t - 4) - 2(7t - 3)$ <i>Solution: $3t^2 - 12t - 14t - 6 = \underline{3t^2 - 26t - 6}$</i>
$(y + 2)^2 + (y - 1)^2$ <i>Solution: $(y+2) + (y-1) = 2y + 1$ Now square answer = $\underline{4y^2 + 4y + 1}$</i>	$3bc^3(4b^5 - 7c^2)$ <i>Solution: $\underline{12b^5c^3 - 21bc^6}$</i>
$2h(11h + 6f) + 10f(8 - h)$ <i>Solution: $\underline{22h^2 + 12hf + 80f - 10fh}$</i>	$(m + 4)(2m - 5)(3m - 7)$ <i>Solution: $\underline{6m^3 + 140}$</i>

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$$\begin{aligned}4(3x + 2) + 6(4x + 3) &= \\6(x + 7) - 3(x + 4) &= \\3(8x - 4) + 4(2x + 5) &= \\6(5x + 7) - 2(x - 4) &= \\5(x + 7) - 2(x - 9) &= \\6(y - 8) - 3(x + 5) &= \end{aligned}$$

$$(x + 5)(x - 7)$$

$$(x - 3)(x + 9)$$

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

$$(x - 2)(x - 3)$$

$$(2x + 7)(x + 6)$$

$$(3x - 5)(2x + 6)$$

$$(8 + d)^2$$

$$(7 - m)^2$$

$$(q + 10)^2$$

$$(3p + 4)^2$$

$$(2k - 2)^2$$

$$(4 - 2n)^2$$



Now, it's
your
turn to
try!

$$(2x - 1)(x - 1)(x - 2)$$

$$(x - 1)(2x - 3)(x + 2)$$

$$(3x - 1)(x + 2)(3x + 2)$$