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| **Fill in the Blanks** | **Expanding Three Brackets** |

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| --- | --- | --- | --- | --- |
| **Question** | **Multiply first two brackets** | **Simplify first two brackets** | **Multiply by third bracket** | **Simplified Answer** |
| $$(x+2)(x+1)(x+5)$$ | $$×$$ | $$x$$ | $$+2$$ | $$x^{2}+3x+2$$ | $$×$$ | $$x^{2}$$ | $$+3x$$ | $$+2$$ | $$x^{3}+8x^{2}+17x+10$$ |
| $$x$$ | $$x^{2}$$ | $$+2x$$ | $$x$$ | $$x^{3}$$ | $$+3x^{2}$$ | $$+2x$$ |
| $$+1$$ | $$+x$$ | $$+2$$ | $$+5$$ | $$+5x^{2}$$ | $$+15x$$ | $$+10$$ |
| $$(y+4)(y-2)(y+3)$$ | $$×$$ | $$y$$ | $$+4$$ |  | $$×$$ |  |  |  |  |
| $$y$$ |  |  | $$y$$ |  |  |  |
| $$-2$$ |  |  | $$+3$$ |  |  |  |
| $$(b-3)(b-5)(b-6)$$ | $$×$$ |  |  |  | $$×$$ |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| $$(2x+3)(x-4)(x+2)$$ | $$×$$ |  |  |  | $$×$$ |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| $$(2a-1)(3a+1)(a-2)$$ | $$×$$ |  |  |  | $$×$$ |  |  |  |  |
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